

NACOmatic

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INSTRUMENT APPROACH PROCEDURE CHARTS



IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ALBANY, OR

ALBANY MUNI VOR/DME or GPS-A
NA except for operators with approved weather reporting service.

ARLINGTON, WA

ARLINGTON MUNI NDB or GPS Rwy 34
Category D, 800-2½.
NA when Paine Field control tower closed.

ASTORIA, OR

ASTORIA RGNL RNAV (GPS) Rwy 26¹²
VOR Rwy 8³

¹NA when local weather not available.

²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

³Category C, 800-2¾; Category D, 900-3.

AURORA, OR

AURORA STATE LOC Rwy 17¹
RNAV (GPS) Rwy 17²³
RNAV (GPS) Rwy 35²

¹Category D, 800-2½.

²NA when local weather not available.

³Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-2¾.

BAKER, MT

BAKER MUNI NDB Rwy 13¹
NDB Rwy 31²

¹Categories A,B, 1100-2; Categories C,D,
1100-3.

²Categories A,B, 1000-2; Category C, 1000-2¾;
Category D, 1000-3.

BAKER CITY, OR

BAKER CITY MUNI RNAV (GPS) Rwy 13¹²
VOR-A¹³
VOR/DME Rwy 13²⁴

¹NA when local weather not available.

²Category D, 900-2¾.

³Categories A,B, 1900-2; Categories C,D,
1900-3.

⁴NA when control zone not in effect.

NAME ALTERNATE MINIMUMS

BELLINGHAM, WA

BELLINGHAM INTL ILS or LOC Rwy 16
RNAV (GPS) Rwy 16
NA when local weather not available.

BIG PINEY, WY

MILEY MEMORIAL FIELD VOR Rwy 31
Category D, 800-2¾.

BILLINGS, MT

BILLINGS LOGAN
INTL NDB Rwy 10L¹
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 28R³

¹Category D, 800-2¾.

²Categories A,B,C,D, 800-2¾.

³Categories A,B, 900-2; Categories C,D,
900-3.

BOISE, ID

BOISE AIR TERMINAL(GOWEN
FIELD) LOC BC Rwy 28L¹
RNAV (GPS) Y Rwy 10R²
RNAV (GPS) Y Rwy 28L²
VOR/DME or TACAN Rwy 10L¹
VOR/DME or TACAN Rwy 28L¹

¹Category E, 900-3.

²Category E, 1000-3.

BOZEMAN, MT

GALLATIN FIELD VOR Rwy 12
Category C, 800-2¾; Category D, 800-2¾.

BREMERTON, WA

BREMERTON NATIONAL .. RNAV (GPS) Rwy 1
RNAV (GPS) Rwy 19¹

NA when local weather not available.

¹Categories A,B, 1200-2; Categories C,D,
1200-3.

NAME ALTERNATE MINIMUMS

BUFFALO, WY

JOHNSON COUNTY **RNAV (GPS) Rwy 31¹**
VOR/DME Rwy 31²

NA when local weather not available.

¹Category D, 800-2½.

²Category C, 800-2½; Category D, 800-2½.

BURLEY, ID

BURLEY MUNI **VOR-A**
VOR/DME-B

NA when local weather not received.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL **NDB Rwy 10¹**
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28

NA when local weather not available.

¹Categories A,B, 1300-2; Categories C,D, 1300-3.

BURNS, OR

BURNS MUNI **VOR Rwy 30**
Categories A, B, 1400-2; Categories C,D, 1400-3.

BUTTE, MT

BERT MOONEY **ILS Y Rwy 15¹**
LOC/DME Rwy 15²
RNAV (GPS) Y Rwy 15³
RNAV (GPS) Z Rwy 15,1200-2
VOR or GPS-B,1400-3
VOR/DME or GPS-A,3000-3

¹Category A, 1100-4; Categories B,C, 1200-4.

²Categories A,B, 1300-2; Categories C,D, 1300-3.

³Categories A,B, 1500-2; Categories C,D, 1500-3.

CALDWELL, ID

CALDWELL
INDUSTRIAL **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30

NA when local weather not available.

CASPER, WY

CASPER/NATRONA
COUNTY INTL **ILS or LOC Rwy 3**
ILS, Categories A,B, 800-2; Category C 800-2½; Category D, 800-2½; Category E, 900-3.
LOC, Category C, 800-2½; Category D, 800-2½; Category E, 900-3.

NAME ALTERNATE MINIMUMS

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON
FIELD **ILS or LOC Rwy 27¹**
NDB Rwy 27¹
RNAV (GPS) Rwy 9²
RNAV (GPS) Rwy 13²
RNAV (GPS) Rwy 31²

¹NA when control tower closed.

²NA when local weather not available.

CODY, WY

YELLOWSTONE
REGIONAL **RNAV (GPS) Rwy 22¹**
VOR or GPS-A²

¹Category C, 800-2½; Category D, 200-2½.

²Category D, 900-3.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY
BOYINGTON FIELD **ILS or LOC/DME Rwy 5**
NDB Rwy 5
RNAV (GPS) Rwy 5
VOR Rwy 5
VOR/DME Rwy 1

NA when local weather not available.

CORVALLIS, OR

CORVALLIS MUNI **VOR-A**
Categories A,B,1200-2; Categories C,D, 1200-3.

DEER PARK, WA

DEER PARK **RNAV (GPS) Rwy 34**
NA when local weather not available.

DILLON, MT

DILLON **VOR or GPS-A,1500-3**
VOR/DME or GPS-B
NA when Dillon altimeter setting not available.

DOUGLAS, WY

CONVERSE COUNTY **VOR Rwy 29**
Categories A,B, 1100-2; Categories C,D, 1100-3. DME standard.

EASTSOUND, WA

ORCAS ISLAND **RNAV (GPS)-A**
Categories A, B, 1100-2.
NA when local weather not available.

ELLENSBURG, WA

BOWERS FIELD **RNAV (GPS) Rwy 25¹**
RNAV (GPS) Rwy 29
VOR-B²

NA when local weather not available.

¹Category D, 800-2½.

²Category A, 1500-2.

NAME ALTERNATE MINIMUMS

EPHRATA, WA

EPHRATA MUNI **RNAV (GPS) Rwy 3**
RNAV (GPS) Rwy 21
VOR/DME Rwy 3
VOR Rwy 21

NA when local weather not available.

Category D, 1300-3.

EUGENE, OR

MAHLON-SWEET

FIELD **ILS or LOC/DME Z Rwy 16R¹**
ILS or LOC Y Rwy 16R¹
ILS or LOC/DME Rwy 16L¹²
RNAV (GPS) Rwy 34R²
VOR or GPS-A³

¹NA when control tower closed.

²NA when local weather not available.

³Categories A,B, 900-2; Category C, 900-2½;
Category D, 900-2¾.

EVANSTON, WY

EVANSTON-UINTA COUNTY

BURNS FIELD **ILS or LOC/DME Rwy 23**
Categories C,D, 700-2.

EVERETT, WA

SNOHOMISH COUNTY(PAINE

FIELD) **ILS or LOC/DME Rwy 16R**
NA when control tower closed.
NA when local weather not available.

FORT BENTON, MT

FORT BENTON **RNAV (GPS) Rwy 23**
NA when local weather not available.

GILLETTE, WY

GILLETTE-CAMPBELL

COUNTY **ILS or LOC Rwy 34¹²**
RNAV (GPS) Rwy 16³
RNAV (GPS) Rwy 34⁴
VOR/DME Rwy 16⁵
VOR/DME Rwy 34¹

¹Categories A,B, 900-2; Category C, 900-2½;
Category D, 1000-3.

²NA when control tower closed.

³Categories A,B,C, 800-2¾; Category D,
1000-3.

⁴Categories A,B,C,D, 1200-4.

⁵Category C, 800-2¾; Category D, 1000-3.

GLASGOW, MT

WOKAL FIELD/

GLASGOW INTL **VOR Rwy 12**
Categories A,B, 900-2; Categories C,D, 900-3.
VOR/DME standard.

NAME ALTERNATE MINIMUMS

GLENDIVE, MT

DAWSON

COMMUNITY **NDB or GPS Rwy 12,900-2¾**

GOODING, ID

GOODING MUNI **RNAV (GPS) Rwy 7**
RNAV (GPS) Rwy 25

NA when local weather not available.

GRAY AAF (KGRF)

FORT LEWIS, WA **NDB Rwy 15**
NDB Rwy 33
ILS or LOC Rwy 15
COPTER NDB Rwy 15

NA when control tower closed.

GREAT FALLS, MT

GREAT FALLS INTL **NDB Rwy 34**
Category D, 800-2¼.

GREYBULL, WY

SOUTH BIG HORN COUNTY **RNAV (GPS)-A**
RNAV (GPS) Rwy 33¹

NA when local weather not available.

¹Category D, 1200-3.

HAILEY, ID

FRIEDMAN

MEMORIAL **RNAV (GPS) W Rwy 31**
Categories A,B, 1900-2; Category C, 1900-3.

HAVRE, MT

HAVRE CITY-COUNTY **VOR or GPS Rwy 7¹**
VOR or GPS Rwy 25²

¹Category D, 800-2¾.

²Categories A,B, 1000-2; Categories C,D,
1000-3.

NAME ALTERNATE MINIMUMS

HELENA, MT

HELENA RGNL ILS or LOC Y Rwy 27¹²
 ILS or LOC Z Rwy 27¹²
 LOC/DME BC-C¹³
 NDB-D¹⁴
 RNAV (GPS) Y Rwy 9⁵
 RNAV (GPS) Rwy 23⁵
 RNAV (GPS) X Rwy 27⁵
 RNAV (RNP) Z Rwy 9⁷
 RNAV (RNP) Y Rwy 27⁷
 RNAV (RNP) Z Rwy 27⁷
 VOR-A⁸
 VOR/DME-B⁸

¹NA when control tower closed.

²Categories A, B, 1600-2; Categories C, D, E, 1600-3.

³Categories A, B, 1300-2; Categories C, D, 1300-3.

⁴Category A, 1200-2.

⁵Categories A, B, 1600-2; Categories C, D, 1600-3.

⁶Categories A, B, 900-2; Category C, 900-2½; Category D, 900-3.

⁷NA when local weather not available.

⁸Categories A, B, 2900-2; Categories C, D, 2900-3.

⁹1000-4.

HOQUIAM, WA

BOWERMAN RNAV (GPS) Rwy 24¹
 VOR/DME Rwy 24²
 VOR Rwy 6¹

¹Category D, 800-2½.

²Categories A,B, 900-2; Category C, 900-2¾; Category D, 900-3.

IDAHO FALLS, ID

IDAHO FALLS RGNL ILS or LOC Rwy 20¹
 LOC BC Rwy 2²
 RNAV (GPS) Rwy 20³
 VOR Rwy 20³

¹ILS, Category E, 700-2½. LOC, Category E, 800-2½.

²Category E, 800-2½.

³NA when local weather not available.

NAME ALTERNATE MINIMUMS

JACKSON, WY

JACKSON HOLE RNAV (GPS) X Rwy 1¹
 RNAV (GPS) Y Rwy 19¹
 RNAV (RNP) Y Rwy 1, 10681200-4
 VOR/DME Rwy 1²
 VOR/DME Rwy 19³

¹Categories A,B, 1200-2; Categories C,D, 1200-3.

²Categories A,B,1000-2; Categories C,D, 1000-3.

³Categories A,B,1400-2; Categories C,D, 1400-3.

JEROME, ID

JEROME COUNTY RNAV (GPS) Rwy 9
 RNAV (GPS) Rwy 27¹
 VOR/DME-A

NA when local weather not available.

¹Categories A, B, 1300-2; Categories C, D, 1300-3.

JOHN DAY, OR

GRANT COUNTY RGNL/
 OGILVIE FIELD RNAV (GPS) Y Rwy 9
 Category B, 900-2; Category C, 900-2½.

KALISPELL, MT

GLACIER PARK INTL ILS or LOC Rwy 2¹
 RNAV (RNP) Y Rwy 2²
 RNAV (RNP) Rwy 20, 800-2½²

¹Categories C, D, 700-2.

²NA when local weather not available.

KLAMATH FALLS, OR

KLAMATH FALLS ILS or LOC Rwy 32¹
 RNAV (GPS) Rwy 14²
 VOR/DME or TACAN Rwy 14³
 VOR/DME or TACAN Rwy 32⁴
 VOR or GPS-B,2100-3

¹Categories A,B, 900-2; Category C, 900-2¾; Category D, 1000-3. LOC, DME required.

²Categories A,B, 900-2; Category C, 900-2¾; Category D, 1000-3.

³Categories C,D, 1000-3; Category E, NA.

⁴Category B, 900-2; Categories C,D, 1000-3; Category E, 1500-3.

LAKEVIEW, OR

LAKE COUNTY VOR/DME-A
 Categories A,B, 900-2; Category C, 900-2½;
 Category D, 900-2¾.

NAME ALTERNATE MINIMUMS

LEWISTON, ID

LEWISTON-NEZ PERCE

COUNTY ILS Rwy 26¹²
RNAV (GPS) Rwy 8³
RNAV (GPS) Rwy 12³
RNAV (GPS) Rwy 26³
VOR Rwy 8⁴
VOR Rwy 26³

¹ILS, Category D, 800-2½.

²NA when control tower closed.

³Category D, 800-2½.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

LEWISTOWN, MT

LEWISTOWN MUNI RNAV (GPS) Rwy 7
VOR Rwy 7

Category D, 800-2½.

LIVINGSTON, MT

MISSION FIELD VOR/DME-B¹
VOR-A²

¹Categories A, B, 900-2; Category C, 900-2½;
Category D, 1000-3.

²Categories A, B, 2200-2; Categories C, D, 2200-3.

MCMINNVILLE, OR

MCMINNVILLE MUNI ILS or LOC Rwy 22
RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 22
VOR/DME-B

NA when local weather not available.

Category D 800-2½.

MEDFORD, OR

ROGUE VALLEY INTL-
MEDFORD ILS or LOC/DME Rwy 14¹²
LOC/DME BC-B²³
RNAV (GPS)-D³
RNAV (GPS) Rwy 14⁴
VOR-A⁵
VOR/DME-C³
VOR/DME Rwy 14⁵

¹ILS, Categories A, B, C, 700-2; Category D, 900-2½. LOC, Category D, 900-2½.

²NA when control tower closed.

³Categories A, B, 2300-2; Categories C, D, 2300-3.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

⁵Categories A, B, 1400-2; Category C, D 1400-3.

NAME ALTERNATE MINIMUMS

MISSOULA, MT

MISSOULA INTL ILS Rwy 11¹
RNAV (GPS) Y Rwy 11²³
RNAV (RNP) Z Rwy 11^{2,800-2½}
VOR/DME or GPS-A, 2000-3
VOR/DME or GPS-B, 2000-3

¹ILS, 1600-6. LOC, NA.

²NA when local weather not available.

³Categories A, B, 1900-2; Categories C, D, 1900-3.

MOSES LAKE, WA

GRANT COUNTY INTL ... ILS or LOC Rwy 32R¹
NDB Rwy 32R²
RNAV (GPS) Rwy 4¹
RNAV (GPS) Rwy 14L¹
RNAV (GPS) Rwy 22¹
VOR Rwy 4²
VOR -1 Rwy 14L²
VOR -3 Rwy 14L²
VOR Rwy 22²
VOR Rwy 32R²

¹NA when local weather not available.

²NA when control tower closed.

NEWCASTLE, WY

MONDELL FIELD VOR or GPS Rwy 31
NA except for operators with approved weather reporting service.
Categories A, B, 900-2; Categories C, D, 900-3.

NORTH BEND, OR

SOUTHWEST OREGON
RGNL ILS or LOC Rwy 4¹
NDB or GPS Rwy 4²
VOR or GPS-A³
VOR/DME or GPS-B⁴
VOR/DME Rwy 4⁴

¹ILS, Categories A, B, 800-2; Category C, 900-2½, Category D, 1000-3. LOC, Category C, 900-2½, Category D, 1000-3.

²Category C, 900-2½; Category D, 1000-3.

³Categories A, B, 1100-2; Categories C, D, 1100-3.

⁴Categories C, D, 1000-3.

OAK HARBOR, WA

AJ EISENBERG RNAV (GPS) Rwy 7
NA when local weather not available.

OLYMPIA, WA

OLYMPIA RGNL ILS or LOC Rwy 17¹²
RNAV (GPS) Rwy 17²
RNAV (GPS) Rwy 35²
VOR-A²³
VOR/DME Rwy 35²

¹ILS, Categories C, D, 700-2.

²NA when local weather not available.

NAME ALTERNATE MINIMUMS
ONTARIO, OR
 ONTARIO MUNI RNAV (GPS) Rwy 14
 RNAV (GPS) Rwy 32
 NA when local weather not available.

PASCO, WA
 TRI-CITIES ILS or LOC Rwy 21R¹²
 RNAV (GPS) Rwy 3L
 RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 21R
 RNAV (GPS) Rwy 30
 VOR Rwy 21R³
 VOR/DME Rwy 30
 NA when local weather not available.

- ¹NA when control tower closed.
²ILS, Categories A,B,C, 700-2; Category D, 700-2½. LOC, Category D, 800-2½.
³Category D, 800-2½.

PENDLETON, OR
 EASTERN OREGON RGNL AT
 PENDLETON ILS or LOC/DME Rwy 25¹
 RNAV (GPS) Rwy 7
 RNAV (GPS) Rwy 11
 RNAV (GPS) Rwy 25
 RNAV (GPS) Rwy 29
 VOR Rwy 7
 NA when local weather not available.
¹ILS, NA when control tower closed.

PINEDALE, WY
 PINEDALE/RALPH WENZ
 FIELD NDB-A
 NA when local weather not available.
 Category C, 800-2¼; Category D, 800-2½.

POCATELLO, ID
 POCATELLO RGNL ILS or LOC Rwy 21¹
 RNAV (GPS) Rwy 3²
 RNAV (GPS) Rwy 21²
¹NA when control zone not in effect.
²NA when local weather not available.

PORT ANGELES, WA
 WILLIAM R
 FAIRCHILD INTL ILS or LOC Rwy 8
 RNAV (GPS) Rwy 8¹
 RNAV (GPS) Rwy 26
 NA when local weather not available.
¹Categories A, B, 1000-2; Categories C, D, 1000-3.

NAME ALTERNATE MINIMUMS
PORTLAND, OR
 PORTLAND INTL ILS or LOC Rwy 10L¹
 ILS or LOC Rwy 10R²
 ILS or LOC Rwy 28L³
 ILS or LOC Rwy 28R⁴
 LOC/DME Rwy 21⁵
 RNAV (GPS) Rwy 10L⁵
 RNAV (GPS) Rwy 10R⁶
 RNAV (GPS) Rwy 12⁷
 RNAV (GPS) Rwy 28L⁸
 RNAV (GPS) Rwy 28R⁹
 VOR/DME Rwy 21⁵
 VOR-A⁹
 VOR Rwy 28R⁵

- ¹ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.
²Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3; Category E, 1100-3.
³ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3; Category E, 1100-3. LOC, Category D, 1000-3; Category E, 1100-3.
⁴ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.
⁵Category D, 1000-3.
⁶Categories A,B,C 800-5; Category D, 1000-5.
⁷NA when local weather not available.
⁸Category D, 1000-3.
⁹Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3.

PORTLAND-HILLSBORO .. ILS or LOC Rwy 12¹
 RNAV (GPS) Rwy 12²
¹Categories A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.
²NA when local weather not available.

PORTLAND-TROUTDALE NDB or GPS-A
 Categories A,B, 1100-2; Category C, 1100-3; Category D, 1300-3.

PULLMAN/MOSCOW, WA
 PULLMAN/MOSCOW
 MUNI RNAV (GPS) Rwy 5,800-2¼

RAWLINS, WY
 RAWLINS MUNI/
 HARVEY FIELD NDB or GPS-A¹
 VOR or GPS Rwy 22,1000-3²
¹Category D, 1000-3.
²NA when Rawlins FSS closed.

NAME ALTERNATE MINIMUMS

REDMOND, OR

ROBERTS FIELD **ILS or LOC Rwy 22¹**
VOR/DME Rwy 22²

¹ILS, LOC, Category D, 800-2½; Category E, 800-2½.

²Category A, B, 1000-2; Category C, 1000-2¾; Category D, E, 1000-3.

RENTON, WA

RENTON MUNI **NDB Rwy 16¹**
RNAV (GPS) Y Rwy 16¹
RNAV (GPS) Z Rwy 16²

NA when local weather not available.

¹Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

²Categories A, B, 900-2.

REXBURG, ID

REXBURG-MADISON

COUNTY **RNAV (GPS) Rwy 35**
NA when local weather not available.
Category D, 800-2½.

RICHLAND, WA

RICHLAND **NDB Rwy 19¹**
RNAV (GPS) Rwy 19¹
RNAV (GPS) Rwy 26¹
VOR/DME-A²
VOR Rwy 26¹

¹Category D, 800-2½.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

ROCK SPRINGS, WY

ROCK SPRINGS SWEETWATER

COUNTY **VOR-B**
Category D, 800-2½.

ROSEBURG, OR

ROSEBURG RGNL **RNAV (GPS)-B**
NA when local weather not available.
Categories A, B, 1200-2; Category C, 1200-3;
Category D, 1400-3.

SALEM, OR

McNARY FIELD **ILS or LOC Rwy 31¹²**
LOC/DME Rwy 31³
RNAV (GPS) Rwy 31¹³

¹NA when local weather not available.

²ILS, Categories A, B, 800-2; Category C, 800-2½; Category D, 800-2½. LOC, Category C, 800-2½; Category D, 800-2½.

³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL

AIRPARK **VOR/DME or GPS-A**
Category B, 900-2; Category C, 1000-2¾;
Category D 1300-3.

SEATTLE, WA

BOEING FIELD-KING COUNTY

INTL **ILS Rwy 13R¹**
ILS Rwy 31L²
LOC/DME Rwy 13R³
RNAV (GPS) Y Rwy 13R⁴
RNAV (RNP) Z Rwy 13R⁵

¹ILS, Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

²Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

³Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

⁴Category B, 900-2; Category C, 900-2¾; Category D, 1000-3.

⁵Categories A, B, C, D, 800-2½.

SHERIDAN, WY

SHERIDAN

COUNTY **ILS or LOC/DME Rwy 32**
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
VOR Rwy 14

NA when local weather not received.
Category D, 800-2½.

SIDNEY, MT

SIDNEY-RICHLAND MUNI **NDB Rwy 1¹**
NDB Rwy 19²

¹Category D, 800-2½.

²Categories C, D, 800-2½.

SPOKANE, WA

FELTS FIELD **ILS/DME Rwy 21R¹**
RNAV (GPS)-A²
RNAV (GPS) Rwy 3L²
VOR Rwy 3L³

¹Categories A, B, 1000-2; Category C, 1000-2½.

²Categories A, B, 1000-2; Category C, 1000-2¾; Category D, 1000-3.

³Categories A, B, 1000-2; Categories C, D, 1000-3

SPOKANE INTL **ILS or LOC Rwy 3¹**
ILS or LOC/DME Rwy 21¹
VOR Rwy 3²

¹ILS, Category D, 700-2.

²Category E, 800-2½.

⁴Category D, 800-2½.



INSTRUMENT APPROACH PROCEDURE CHARTS



IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

AFTON, WY

AFTON MUNI

DEPARTURE PROCEDURE: **Rwy 16**, Use LUNDI
DEPARTURE. **Rwy 34**, use AFTON DEPARTURE.

ALBANY, OR

ALBANY MUNI

DEPARTURE PROCEDURE: **Rwy 16**, turn right.
Rwy 34, turn left. All aircraft climb direct CVO VOR/
DME and continue climb in CVO VOR/DME holding
pattern, (E, right turns, 261° inbound) to cross CVO
VOR/DME at or above 3000.

ANACONDA, MT

BOWMAN FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, std. w/min. climb of 417'
per NM to 9000, or 2800-3 for climb in visual conditions.
Rwy 16, std. w/min. climb of 321' per NM to 10200, or
2800-3 for climb in visual conditions. **Rwy 22**, NA-
obstacles. **Rwy 34**, std. w/min. climb of 369' per NM to
9100, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing right
turn to 10200 via heading 130° and CPN VOR/DME R-
340 to CPN VOR/DME, continue climb-in-hold to 10200
(north, left turn, 166° inbound), or for climb in visual
conditions, cross Bowman Field Airport at or above 7700
then proceed via CPN R-309 to CPN VOR/DME,
continue climb-in-hold to 10200 (north, left turn, 166°
inbound).

NAME TAKE-OFF MINIMUMS

BOWMAN FIELD (CON'T)

Rwy 16, climbing left turn to 10200 via heading 100° and
CPN VOR/DME R-335 to CPN VOR/DME, continue
climb-in-hold to 10200 (north, left turn, 166° inbound), or
for climb in visual conditions, cross Bowman Field
Airport at or above 7700 then proceed via CPN R-309 to
CPN VOR/DME, continue climb-in-hold to 10200 (north,
left turn, 166° inbound).

NOTE: **Rwy 16**, multiple trees beginning 865' from
departure end of runway, 243' left of centerline, up to 70'
AGL/5097' MSL. Rod on hangar 570' from departure
end of runway, 278' left of centerline, 54' AGL/5054'
MSL. Multiple trees beginning 787' from departure end
of runway, 165' right of centerline, up to 70' AGL/5098'
MSL. Multiple transmission lines beginning 4602' from
departure end of runway, 1664' right of centerline, 80'
AGL/5159' MSL. **Rwy 34**, multiple transmission lines
beginning 2242' from departure end of runway, 964' left
of centerline, up to 80' AGL/5159' MSL.

ARCO, ID

ARCO-BUTTE COUNTY (AOC)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, NA - Obstacles.
DEPARTURE PROCEDURE: Use JATTS
DEPARTURE.



ARLINGTON, WA**ARLINGTON MUNI**

TAKE-OFF MINIMUMS: **Rwy 11**, 600-2 or std. with a min. climb of 350' per NM to 700. **Rwy 34**, 500-2 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwy 16, climb direct to WATON LOM. **Rwys 29, 34**, turn left. **All aircraft** climb direct to WATON LOM. Aircraft departing WATON LOM on bearings 150° CW 200° and bearings 260° CW 340° from WATON LOM continue climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 1500 then continue climb on course.

ASTORIA, OR**ASTORIA RGNL**

TAKE-OFF MINIMUMS: **Rwy 8**, 800-3 or std. with a min. climb of 320' per NM to 900. **Rwy 13**, 700-2 or std. with a min. climb of 350' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 8, 31**, turn left.

Rwy 13, climb runway heading to 800 then climbing right turn. **Rwy 26**, turn right. Aircraft departing northwestbound climb via AST R-290 on course.

All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

AUBURN, WA**AUBURN MUNI**

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE.

AURORA, OR**AURORA STATE**

DEPARTURE PROCEDURE: **Rwy 17**, turn right,

thence... **Rwy 35**, turn left, thence...

...Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: **Rwy 17**, multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL.

Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL.

Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL. **Rwy 35**, multiple trees and road beginning 31' from departure end of runway, 163' left of centerline, up to 138' AGL/329' MSL.

Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

BAKER, MT**BAKER MUNI**

NOTE: **Rwy 13**, 51' derrick 2200' from departure end of runway on centerline. 100' trees south of airport, near runway, various locations. **Rwy 31**, 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline. 114' rod on OL antenna 3800' from departure end of runway on centerline.

BAKER CITY, OR**BAKER CITY MUNI**

TAKE-OFF MINIMUMS: **Rwy 8**, 900-2 or std. with a min. climb of 315' per NM to 6000, (788' per min. at 150K, 1050' per min. at 200K, 1313' per min. at 250K).

Rwy 13, 1400-2 or std. with a min. climb of 310' per NM to 6000 (775' per min. at 150K, 1033' per min. at 200K, 1292' per min. at 250K). **Rwy 17**, NA. **Rwy 31**, 1300-2 or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K). **Rwy 35**, CAT C, D 1000-2; or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K).

DEPARTURE PROCEDURE: **Rwys 8, 13**, turn left.

Rwys 26, 31, 35, turn right. **All aircraft** climb direct BKE VOR/DME. Continue climb in BKE holding pattern (SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

BELLINGHAM, WA**BELLINGHAM INTL**

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 160° to 600, then climbing right turn direct HUH VORTAC. Do not exceed 210 KIAS until established northbound. **Rwy 34**, climb heading 340° to 600, then climbing left turn to intercept HUH R-145 to HUH VORTAC, continue climb in holding pattern (northwest, right turn, 149° inbound) to MEA as appropriate for direction of flight.

NOTE: **Rwy 16**, lighted windsock 9' from departure end of runway, 259' right of centerline, 16' AGL/181' MSL.

Multiple trees beginning 747' from departure end of runway, 405' right of centerline, up to 68' AGL/213' MSL.

Multiple trees beginning 1128' from departure end of runway, 57' left of centerline, up to 104' AGL/249' MSL.

Rwy 34, lighted windsock 93' from departure end of runway, 516' right of centerline, 27' AGL/169' MSL. multiple trees beginning 1372' from departure end of runway, 619' right of centerline, up to 134' AGL/246' MSL.

BEND, OR**BEND MUNI (BDN)****AMDT 4 09183 (FAA)**

DEPARTURE PROCEDURE: Use BEND DEPARTURE.

BIG PINEY, WY**MILEY MEMORIAL FIELD**

TAKE-OFF MINIMUMS: **Rwys 8, 26**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 8400 via BPI R-124. **Rwy 31**, climb to 10800 via BPI R-320 thence all aircraft climb on course.

BILLINGS, MT

BILLINGS LOGAN INTL (BIL)
AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10R**, NA- Obstacles.
DEPARTURE PROCEDURE: **Rwy 10L**, Climb heading 098° to 4600 before turning right.
NOTE: **Rwy 10L**, fence 466' from departure end of runway, 535' right of centerline, 11' AGL/3511' MSL, cars on road, beginning from 624' from departure end of runway, 427' right of centerline, 15' AGL/3523' MSL, ground beginning 21' from departure end of runway, 499' right of centerline, 0' AGL/3505' MSL. **Rwy 25**, airport security fence, abeam departure end of runway, 500' left of centerline, 11' AGL/3672' MSL to 1200' from departure end of runway, abeam rwy centerline, 11' AGL/3672' MSL.

BLACKFOOT, ID

MCCARLEY FIELD

DEPARTURE PROCEDURE: **Rwy 1**, climb to 7000 (or higher assigned altitude) direct IDA VOR/DME, before proceeding on course. **Rwy 19**, climb to 7000 (or higher assigned altitude) direct PIH VORTAC, before proceeding on course.

BOISE, ID

BOISE AIR TERMINAL (GOWEN FIELD)

DEPARTURE PROCEDURE: **Rwys 28L, 28R**, turn left **Rwys 10L, 10R**, turn right. Climb on BOI R-214 within 20 NM to cross BOI VORTAC at or above MEA/MCA for direction of flight.

BOZEMAN, MT

GALLATIN FIELD (BZN)
AMDT 3 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-ATC.
DEPARTURE PROCEDURE: **Rwys 12, 30**, use BOZEMAN DEPARTURE.

BREMERTON, WA

BREMERTON NATIONAL (PWT)
AMDT 3 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. w/ min. climb of 410' per NM to 700.
DEPARTURE PROCEDURE: **Rwy 1**, Climbing right turn to 6000 direct CAN NDB, Thence... **Rwy 19**, Climb to 6000 direct CAN NDB, thence...
...Continue climb-in-hold (S, LT, 013° inbound) to 6000 before proceeding on course.
NOTES: **Rwy 1**, Multiple bushes 380' from departure end of runway, 522' left of centerline, up to 17' AGL/456' MSL, multiple trees and poles beginning 1210' from departure end of runway, 622' left of centerline, up to 100' AGL/561' MSL, multiple trees and bushes 1012' from departure end of runway, 708' right of centerline, up to 100' AGL/495' MSL. **Rwy 19**, Multiple trees beginning 176' from departure end of runway, 337' left of centerline, up to 100' AGL/514' MSL, multiple trees beginning 371' from departure end of runway, 277' right of centerline, up to 100' AGL/548' MSL.

BUFFALO, WY

JOHNSON COUNTY

TAKE-OFF MINIMUMS: Northbound aircraft:
Rwys 13, 31, 2400-2 or std. with a min. climb of 300' per NM to 7500. Southbound aircraft: **Rwy 31**, 400-2 or std. with a min climb of 300' per NM to 6000.
DEPARTURE PROCEDURE: Northbound aircraft:
Rwy 13, turn left. **Rwy 31**, climb straight ahead.
All aircraft proceed via SHR R-139 to SHR VORTAC. Southbound aircraft: **Rwy 13**, climb straight ahead. **Rwy 31**, turn right. **All aircraft** proceed via CZI R-319 to CZI VOR/DME.

BURLEY, ID

BURLEY MUNI

TAKE-OFF MINIMUMS: **All runways**, cross departure end of runway at or above 35' AGL.
DEPARTURE PROCEDURE: **All runways**, climb direct BURLEY (BYI) VOR/DME. Continue climb on R-305 within 10 miles to cross BYI VOR/DME: R-024 CW R-054 at or above 5500; R-055 CW R-240 at or above 8000; R-241 CW R-023 at or above 5900.
NOTE: **Rwy 2**, bridge 252' from departure end of runway, 513' left of centerline, 110' AGL/4195' MSL. Stack 2205' from departure end of runway, 857' right of centerline, 79' AGL/4236' MSL. Elevator 4092' from departure end of runway, 297' right of centerline, 133' AGL/4283' MSL. **Rwy 20**, antenna 523' from departure end of runway, 338' right of centerline, 43' AGL/4217' MSL. **Rwy 24**, tree 630' from departure end of runway, 521' right of centerline, 41' AGL/4215' MSL. Grain elevator 3106' from departure end of runway, 163' left of centerline, 137' AGL/4317' MSL.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL (BVS)
ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 340' per NM to 3600. **Rwy 10**, 1700-2 or std. with a min. climb of 245' per NM to 2300. **Rwy 22**, 1300-2 or std. with a min. climb of 210' per NM to 1800.
DEPARTURE PROCEDURE: **Rwys 4, 10, 22**, turn right heading 280°. **Rwy 28**, climb runway heading.
All aircraft climb to 2500 then turn right direct BVS NDB to cross BVS at or above 4500. Aircraft departing on BVS R-145 CW R-330 climb on course. All others continue climbing in BVS holding pattern (NW, right turns 113° inbound) to cross BVS at or above 6800 before proceeding on course.
NOTE: **Rwy 4**, tree 2581' from departure end of runway, 426' left of centerline, 100' AGL/212' MSL. Light pole 1489' from departure end of runway, 136' left of centerline 35' AGL/137' MSL. Bush 126' from departure end of runway, 430' right of centerline, 20' AGL/101' MSL. Building 2925' from departure end of runway, 130' left of centerline, 60' AGL/180' MSL.

BURNS, OR**BURNS MUNI**

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn, thence... **Rwy 12**, climb to 4600 via heading 117°, thence... **Rwys 21, 30**, climbing left turn, thence...

...All aircraft departing on ILR R-072 CWR-209, climb on course. All others climb on ILR R-123 within 10 NM to cross ILR VOR/DME at or above 5000.

NOTE: **Rwy 21**, pole 820' from departure end of runway, 357' left of centerline, 20' AGL/4169' MSL.

BUTTE, MT**BERT MOONEY**

TAKE-OFF MINIMUMS: **Rwy 11**, NA-obstacles. **Rwy 15**, std. w/min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions. **Rwy 29**, std. w/min. climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions. **Rwy 33**, std. w/min. climb of 355' per NM to 6800, or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 29**, climb heading 293° to intercept CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 33**, climb direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence...

...climb in CPN VOR/DME holding pattern (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute.

NOTE: **Rwy 15**, multiple trees beginning 2 NM from departure end of runway, 1779' right of centerline, up to 100' AGL/6659' MSL. Tree 2.1 NM from departure end of runway, 66' left of centerline, 100' AGL/5934' MSL. **Rwy 29**, multiple trees and poles beginning 364' from departure end of runway, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from departure end of runway, 1022' left of centerline, up to 100' AGL/6379' MSL. **Rwy 33**, flag pole 1095' from departure end of runway, 730' left of centerline, 64' AGL/5583' MSL.

CALDWELL, ID**CALDWELL INDUSTRIAL**

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb via heading 119° to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. **Rwy 30**, climb via heading 299° to 4400 before proceeding on course.

NOTE: **Rwy 12**, levee 198' from departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30**, multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

CASPER, WY**CASPER/NATRONA COUNTY INTL (CPR)
AMDT 3A 09155 (FAA)**

DEPARTURE PROCEDURE: **Rwys 3, 8, 12**, turn left.

All other runways, turn right. All aircraft climb direct DDY VORTAC before proceeding on course, or comply with published Casper SIDs.

CHEHALIS, WA**CHEHALIS-CENTRALIA**

DEPARTURE PROCEDURE: **Rwy 16**, climb to 1000 via heading 160° then climbing left turn to 4000 via heading 001° and OLM R-151 to OLM VORTAC before proceeding on course. **Rwy 34**, climb to 4000 via heading 340° and OLM R-176 to OLM VORTAC before proceeding on course.

CHEYENNE, WY**CHEYENNE RGNL/JERRY OLSON FIELD**

NOTE: **Rwy 13**, multiple trees beginning 74' from departure end of runway, 115' left of centerline, up to 40' AGL/6166' MSL. Multiple trees, pole, and fence beginning 34' from departure end of runway, 167' right of centerline, up to 40' AGL/6154' MSL. **Rwy 27**, multiple trees and poles beginning 525' from departure end of runway, 271' left of centerline, up to 40' AGL/6216' MSL. Multiple trees and poles beginning 1222' from departure end of runway, 275' right of centerline, up to 40' AGL/6211' MSL. **Rwy 31**, multiple trees, road, fence and sign beginning 196' from departure end of runway, 76' left of centerline, up to 40' AGL/6238' MSL. Multiple poles and sign beginning 407' from departure end of runway, 8' left of centerline, up to 69' AGL/6229' MSL.

CODY, WY**YELLOWSTONE RGNL**

TAKE-OFF MINIMUMS: **Rwy 4**, 1500-2 or std. with a min. climb of 250' per NM to 6800. **Rwy 22**, 1600-2 or std. with a min. climb of 340' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 4, 22**, turn left.

All aircraft climb direct COD VOR/DME. Climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above: COD R-350 CWR-170, 6000; or R-171 CWR R-349, 11800.

COEUR D'ALENE, ID**COEUR D'ALENE-PAPPY BOYINGTON FLD**

TAKE-OFF MINIMUMS: **Rwy 5**, CAT A,B, 1700-2 or std. with a min. climb of 230' per NM to 4000. CAT C,D, 2600-2 or std. with a min. climb of 320' per NM to 5400.

DEPARTURE PROCEDURE: **Rwys 1, 5**, turn left, climb via COE R-005 to 5400, reverse course, continue climb direct COE VOR. **Rwy 19**, turn right. **Rwy 23**, turn left, climb via COE R-232 to 5000, reverse course, continue climb direct COE VOR.

COLSTRIP, MT**COLSTRIP (M46)****AMDT 2 08157 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 6** use CISP (RNAV) DEPARTURE. **Rwy 24**, use CONUK (RNAV) DEPARTURE.

CONRAD, MT**CONRAD**

DEPARTURE PROCEDURE: **Rwy 24**, climb runway heading to 4300, then continue climb on course.

CORVALLIS, OR**CORVALLIS MUNI**

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, std. with a min. climb of 290' per NM to 3100 or 1700-3 for climb in visual conditions. **Rwy 27**, std. with a min. climb of 310' per NM to 3100 or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 9, 17**, climbing left turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

Rwys 27, 35, climbing right turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

...climb in CVO VOR/DME holding pattern (E, RT, 261° inbound) to depart at or above 3400.

NOTE: **Rwy 9**, multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL. Multiple trees and railroad beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL. **Rwy 27**, obstruction light on glideslope 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35, multiple trees beginning 470' from departure end of runway, 544' left of centerline up to 36' AGL/276' MSL.

COWLEY/LOVELL/BYRON, WY**NORTH BIG HORN COUNTY**

DEPARTURE PROCEDURE: **Rwys 9, 27**, aircraft departing via HCY NDB bearings 130° CW 225° climb on course, all others climb in HCY NDB holding pattern (W, right turns, 078° inbound) to cross HCY NDB at or above 9000.

DEER PARK, WA**DEER PARK**

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 360' per NM to 5600.

DEPARTURE PROCEDURE: **Rwy 16**, climb runway heading; **Rwy 22**, climbing left turn to heading 130°; **Rwys 4, 34**, climbing right turn to heading 210°; **All aircraft** intercept and continue climb via the 170° bearing from DPY NDB to intercept GEG R-006 to GEG VORTAC.

DILLON, MT**DILLON**

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA.

DEPARTURE PROCEDURE: **Rwys 16, 34**, turn right, climb in DLN VOR/DME holding pattern (N, right turns, 185° inbound) to cross DLN VOR/DME at or above; northwestbound V257 8500; southwestbound V121 8500; northbound V21 7600; southeastbound V21, V257 9400.

DOUGLAS, WY**CONVERSE COUNTY**

TAKE-OFF MINIMUMS: **Rwy 5**, 300-2 or std. with a min. climb of 250' per NM to 5200. **Rwy 23**, 1700-3 or std. with a min. climb of 260' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via IIP VOR/DME R-342 to IIP VOR/DME. **Rwy 11**, climbing right turn via IIP VOR/DME R-312 to IIP VOR/DME. **Rwy 23**, climbing left turn via IIP VOR/DME R-264 to IIP VOR/DME. **Rwy 29**, climbing right turn via IIP VOR/DME R-325 to IIP VOR/DME. **All aircraft** departing IIP R-253 CW R-180 climb on course. All others continue climb in IIP VOR/DME holding pattern (NW, left turns, 125° inbound) to cross IIP VOR/DME at or above: R-181 CW R-199 9600; R-200 CWR-252 8000.

NOTE: **Rwy 5**, trees 1883' from departure end of runway, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from departure end of runway, 1954' right of centerline, 35' AGL/5132' MSL. **Rwy 23**, trees 2068' from departure end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

DRIGGS, ID**DRIGGS-REED MEMORIAL (DIJ)****AMDT 2 08157 (FAA)**

DEPARTURE PROCEDURE: Use LAMON DEPARTURE.

EASTSOUND, WA**ORCAS ISLAND (ORS)****ORIG 09295 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 16**, NA-Terrain. **Rwy 34**, 500-3 or std. w/ min. climb of 224' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 34**, climbing right turn to intercept HUH VORTAC R-210 to HUH VORTAC.

NOTE: **Rwy 34**, trees beginning 330' from DER, 411' left of centerline, up to 120' AGL/139' MSL.

ELLENSBURG, WA**BOWERS FIELD**

TAKE-OFF MINIMUMS: **Rwys 7, 11**, 4600-3 or std. with a min. climb of 290' per NM to 7800. **Rwy 25**, 4700-3 or std. with a min. climb of 340' per NM to 7800. **Rwy 29**, 4600-3 or std. with a min. climb of 320' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 7, 29**, climbing right turn direct ELN VORTAC. **Rwys 11, 25**, climbing left turn direct ELN VORTAC. **All aircraft**, continue climbing in the ELN VORTAC holding pattern (W, right turns, 087° inbound) to MEA/MOCA for route of flight.

EPHRATA, WA**EPHRATA MUNI (EPH)****AMDT 3 09127 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 29**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 027° to 2300 before proceeding on course. **Rwy 11**, climb heading 112° to 2200 before proceeding on course. **Rwy 21**, climb heading 207° to 2800 before proceeding on course.

EUGENE, OR

MAHLON SWEET FIELD

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 1000 then climbing right turn...**Rwys 34L, 34R**, climb to 1000 then climbing left turn...

...all aircraft climb direct EUG VORTAC, then climb in EUG VORTAC holding pattern (hold north, right turn, 175° inbound) to cross EUG VORTAC at or above MEA altitude before proceeding enroute.

NOTE: **Rwy 16R**, tree 1992' from departure end of runway, 832' left of centerline, 50' AGL/419' MSL. **Rwy 16L**, multiple trees and power poles beginning 872' from departure end of runway, 35' right of centerline, up to 50' AGL/437' MSL, multiple trees and power poles beginning 890' from departure end of runway, 77' left of centerline, up to 50' AGL/433' MSL. **Rwy 34R**, multiple trees beginning 2869' from departure end of runway, 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline, 50' AGL/428' MSL.

EVANSTON, WY

EVANSTON-UINTA COUNTY BURNS FIELD

DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME. **Rwy 23**, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME.

All aircraft: cross FBR VOR/DME at or above MEA for direction of flight.

EVERETT, WA

SNOHOMISH COUNTY (PAINE FIELD)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 353' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 11, 16L/R**, climbing right turn, thence...**Rwys 29, 34L/R**, climbing left turn, thence...

...for aircraft departing via V287 west bound, climb via PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/DME, climb in PAE VOR/DME holding pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course.

NOTE: **Rwy 11**, multiple antennas on building, rod on obstruction light, and trees beginning 326' from departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. **Rwy 16L**, multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building beginning 449' from departure end of runway, 162' right of centerline, up to 78' AGL/657' MSL. **Rwy 16R**, multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL. Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. **Rwy 29**, multiple trees beginning 45' from departure end of runway, 66' left of centerline, up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. **Rwy 34R**, multiple trees and pole beginning 3340' from departure end of runway, 180' right of centerline, up to 95' AGL/674' MSL. Tree 5762' from departure end of runway, 221' left of centerline, 103' AGL/682' MSL.

FAIRCHILD AFB (KSKA)

SPOKANE, WA ORIG, 08017

DEPARTURE PROCEDURES: **Rwy 5**, climb on track 048° to intercept SKA R-045 to 5300, then on course. **Rwy 23**, climb on track 241° to 3400, then on course.

TAKE-OFF OBSTACLES: **Rwy 23**, Terrain 2468' MSL, 194' from DER, 405' right of centerline. Terrain 2477' MSL, 461' from DER, 751' right of centerline. Terrain 2477' MSL, 509' from DER, 750' right of centerline.

FORT BENTON, MT

FORT BENTON

TAKE-OFF MINIMUMS: **Rwys 5, 23**, std. w/ min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 5, 23**, for climb in visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

FORT BRIDGER, WY

FORT BRIDGER

DEPARTURE PROCEDURE: **All aircraft** climb direct FBR VOR/DME. Aircraft departing: FBR R-210 CW R-135 climb on course; FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

FRIDAY HARBOR, WA

FRIDAY HARBOR

TAKE-OFF MINIMUMS: **Rwy 34**, 500-1.

DEPARTURE PROCEDURE: Aircraft departing FHR NDB **Rwy 34**, climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

GILLETTE, WY

GILLETTE-CAMPBELL COUNTY (GCC)

AMDT 4 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 275' per NM to 5600, or 1200-3 for climb in visual conditions. **Rwy 21**, 600-3 or std. w/ min. climb of 425' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 158° to 5100, before proceeding on course or, for climb in visual conditions cross Gillette-Campbell County airport at or above 5400 before proceeding on course. **Rwy 21**, climb via heading 206° to 5200, before proceeding on course.

NOTE: **Rwy 3**, windsock 1415' from DER, 100' left of centerline, 24' AGL/4366' MSL. Trees beginning 1976' from DER, 267' right of centerline, up to 30' AGL/4409' MSL. **Rwy 16**, tower and poles beginning 1.61 NM from DER, 1264' left of centerline, up to 57' AGL/4696' MSL. Post and trees beginning 1.77 NM from DER, 300' right of centerline, up to 51' AGL/4789' MSL. **Rwy 21**, fence 328' from DER, 267' left of centerline, 7' AGL/4352' MSL, trees 2077' from DER, 1011' right of centerline, 30' AGL/4449' MSL, tree 7029' from DER, 2378' right of centerline, 30' AGL/4729' MSL. **Rwy 34**, fence 1236' from DER, 723' left of centerline, 16' AGL/4380' MSL. Vehicle on road 1609' from DER, 419' left of centerline, 15' AGL/4394' MSL. Trees 3093' from DER, 936' right of centerline, 30' AGL/4449' MSL. Vehicle on road 1610' from DER, 419' left of centerline, 15' AGL/4380' MSL.

**GOODING, ID**

GOODING MUNI (GNG)

ORIG 08269 (FAA)

DEPARTURE PROCEDURE: **Rwy 7**, climb heading 068° to 5000 before turning left. **Rwy 25**, climb heading 233° to 5600 before turning right.

NOTE: **Rwy 7**, rising terrain 59' from departure end of runway, 479' right of centerline, up to 3754' MSL. Fence line 653' from departure end of runway, 332' right of centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from departure end of runway, 420' right of centerline, 20' AGL up to 3795' MSL. **Rwy 25**, vehicle on road, 91' from departure end of runway, 257' left of centerline, up to 10' AGL/3678' MSL.

GRANGEVILLE, ID

IDAHO COUNTY (S80)

AMD T 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, NA - Obstacles.

DEPARTURE PROCEDURE: **Rwy 25**, Use MELLR DEPARTURE.

GRANTS PASS, OR

GRANTS PASS

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 4000-3 or std. with a min. climb of 360' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 30**, climb via heading 320 until passing 5000, then climbing right turn direct RBG VOR/DME. Cross RBG VOR/DME at or above MEA for route of flight.

GRAY AAF (KGRF)

FORT LEWIS, WA

..... **Rwy 15**, 300-1***Rwy 33**, 300-1**

* Or standard with minimum climb of 430/NM to 500.

** Or standard with minimum climb of 380/NM to 600.

Rwy 15 climb runway heading to 700 then climbing left turn direct GR LOM. **Rwy 33** climb runway heading direct GR LOM. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GR LOM climb on course. All others continue climb in GR holding pattern (Hold NW, RT, 147° inbound) to cross GR LOM at or above: 071° CW 134° bearing from GR LOM, 8500'; 261° CW 329° bearing from GR LOM, 1500.

GREAT FALLS, MT

GREAT FALLS INTL

NOTE: **Rwy 7**, obstruction light on lighted wind sock 237' from departure end of runway, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226' from departure end of runway, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from departure end of runway, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from departure end of runway, 440' right of centerline, up to 90' AGL/3746' MSL. **Rwy 21**, pole 1544' from departure end of runway, 791' left of centerline, 45' AGL/3725' MSL. **Rwy 25**, windmill 2.3 NM from departure end of runway, 4197' right of centerline, 338' AGL/4003' MSL.

GREYBULL, WY

SOUTH BIG HORN COUNTY (GEY)

ORIG-A 09239 (FA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1 or std. w/ min. climb of 260' per NM to 4200.

DEPARTURE PROCEDURE: **All runways**, for departures on Gey bearings 320° CW 150°, climb in Gey NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures Gey bearings 150° CW 320° climb on course.

NOTE: **Rwy 25**, bush 4955' from DER, 1268' right of centerline, 2' AGL/4101' MSL.

GUERNSEY, WY

CAMP GUERNSEY

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1 or std. with a min. climb of 320' per NM to 4700. **Rwy 32**, 1400-2 or std. with a min. climb of 320' per NM to 5800.

DEPARTURE PROCEDURE: **Rwy 14**, climb to 5600 via heading 150°. **Rwy 32**, climb to 5800 via heading 070°.

All aircraft continue on course.

HAILEY, ID

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 13**, 2700-3 w/ min. climb of 307' per NM to 6400, or 3600-3 for climb in visual conditions. **Rwy 31**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 13**, Climbing right turn heading 149°, then on 160° course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 heading 151°, then on 151° course to HLE NDB.

NOTE: **Rwy 13**, multiple trees beginning 763' from departure end of runway, 3' right of centerline, up to 100' AGL/5345' MSL. Multiple trees beginning 1.3 NM from departure end of runway, 2587' right of centerline, up to 100' AGL/6099' MSL.

HAMILTON, MT

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.

HAVRE, MT

HAVRE CITY-COUNTY

DEPARTURE PROCEDURE: **Rwys 3, 7**, turn left;

Rwys 21, 25, turn right; climb to 3600 via HVR R-350, then direct HVR VOR/DME to cross HVR VOR/DME at or above 4000. Continue climb on course to MEA for route of flight.



HELENA, MT

HELENA RGNL (HLN)
ADMT 9 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. w/ min. climb of 250' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 9**, std. w/ min. climb of 240' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 23**, 1600-3 or std. w/ min. climb of 560' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 27**, 1600-3 or std. w/ min. climb of 390' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwys 16, 34, NA**.
DEPARTURE PROCEDURE: **Rwys 5, 9**, climbing left turn heading 270°. **Rwys 23, 27**, climbing right turn heading 020°. **All Aircraft**: continue climb northwestbound via HLN R-318 to 8100, then climbing right turn direct HLN VORTAC, cross HLN VORTAC at or above 9000, before proceeding on course, or for climb in visual conditions: cross Helena Rgnl airport northbound at or above 5300 and continue climbing via HLN R-336 to WOKEN INT before proceeding on course.

NOTE: **Rwy 5**, ground beginning 5' from departure end of runway, 495' right of centerline, up to 3826' MSL. Fence beginning 423' from departure end of runway, 331' right of centerline, up to 10' AGL/3832' MSL. **Rwy 23**, pole 2198' from departure end of runway, 462' left of centerline, 76' AGL/3996' MSL, tree 1011' from departure end of runway, 379' left of centerline, 44' AGL/3964' MSL, rod on building 953' from departure end of runway, 321' left of centerline, 323' AGL/943' MSL, tree 1519' from departure end of runway, 142' right of centerline, 53' AGL/3953' MSL. **Rwy 27**, building 1593' from departure end of runway, 731' left of centerline, 58' AGL/6385' MSL. Ground beginning 101' from departure end of runway, 346' left of centerline, up to 3871' MSL. Tree 1567' from departure end of runway, 616' left of centerline, 47' AGL/3906' MSL.

HERMISTON, OR

HERMISTON MUNI

NOTE: **Rwy 4**, tower 379' left of departure end of runway, 50' AGL/698' MSL. **Rwy 22**, light pole 456' left of departure end of runway, 44' AGL/684' MSL.

HOQUIAM, WA

BOWERMAN

TAKE-OFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 260' per NM to 600.
DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn heading 110°. **Rwy 24**, climb runway heading.
All aircraft climb to 600 continue climb on course.

HULETT, WY

HULETT MUNI (W43)
ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 450' per NM to 6300, or 500-2¼ w/ min. climb of 295' per NM to 7700, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. **Rwy 31**, climbing right turn on a heading between 090° clockwise to 115° from departure end of runway to 7700 before proceeding on course.

NOTE: **Rwy 13**, road 398' from departure end of runway, 37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from departure end of runway, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from departure end of runway, across centerline, up to 100' AGL/4657' MSL. **Rwy 31**, terrain 104' from departure end of runway, 420' left of centerline, 4200' MSL, terrain 344' from departure end of runway, 233' left of centerline, 4207' MSL.

IDAHO FALLS, ID

IDAHO FALLS RGNL

DEPARTURE PROCEDURE: **All aircraft** departing
IDA

R-160 CW R-040 climb on course. All others climb direct IDA VOR/DME. Continue climb in IDA holding pattern (S, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500.

NOTE: **Rwy 2**, trees 1798' from departure end of runway, 457' right of centerline, 80' AGL/4769' MSL.

Rwy 17, antenna 2561' from departure end of runway, 338' right of centerline, 121' AGL/4847' MSL. **Rwy 20**, pole 2465' from departure end of runway, 632' right of centerline, 56' AGL/4755' MSL. **Rwy 35**, trees 883' from departure end of runway, 676' right of centerline, 80' AGL/4769' MSL.

JACKSON, WY

JACKSON HOLE

DEPARTURE PROCEDURE: **Rwy 1**, use GEYSER DEPARTURE. **Rwy 19**, use TETON DEPARTURE.



JEROME, ID

JEROME COUNTY (JER)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 500-1½ or std. w/ min. climb of 435' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 086° to 5300 before proceeding on course. **Rwy 27**, climb heading 266° to 4800 before proceeding on course.

NOTE: **Rwy 9**, bush 140' from DER, 500' left of centerline, 16' AGL/4076' MSL. Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49' AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline, up to 53' AGL/4137' MSL. Building 2186' from DER, 173' left of centerline, 29' AGL/4119' MSL. Rising terrain starting 2549' from DER, 560' left of centerline, up to 4219' MSL. AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL. Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL. **Rwy 27**, fence starting 18' from DER, 440' left of centerline, up to 9' AGL/3969' MSL.

JOHN DAY, OR

GRANT COUNTY RGNL/OGILVIE FIELD

(GCD)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, NA, Terrain.

DEPARTURE PROCEDURE: **Rwy 27**, climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC, climb in IMB VORTAC holding pattern (E, right turns, 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.

NOTE: **Rwy 27**, fence beginning 195' from departure end of runway, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from departure end of runway, 261' right of centerline, up to 26' AGL/3662' MSL. Bush 389' from departure end of runway, 438' right of centerline, 20' AGL/3659' MSL.

KALISPELL, MT

GLACIER PARK INTL

DEPARTURE PROCEDURE: Use SKOTT

DEPARTURE.

KELSO, WA

SOUTHWEST WASHINGTON RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 1200-2 or std. with a min. climb of 320' per NM to 1300.

DEPARTURE PROCEDURE: Departure procedure limited to CAT A, B aircraft. **Rwy 30**, climb straight ahead to 1500 then climbing right turn direct LSO NDB. Continue climb in holding pattern (N, right turns, 171° inbound) to cross LSO NDB at or above 3000 direct BTG VORTAC or MEA for route of flight.

KEMMERER, WY

KEMMERER MUNI (EMM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA - Rwy surfaces.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 12000 via heading 166° and FBR VOR/DME R-330 to FBR VOR/ DME before proceeding on course. **Rwy 34**, climb via heading 346° to 8200 then climbing right turn to 12000 via heading 125° and FBR VOR/DME R-345 to FBR VOR/ DME before proceeding on course.

KLAMATH FALLS, OR

KLAMATH FALLS

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 14**, 1100-3 or std. with a min. climb of 275' per NM to 5500. **Rwy 25**, 3300-3 or std. with a min. climb of 250' per NM to 7400.

Rwy 32, 2000-3 or std. with a min. climb of 320' per NM to 6300.

DEPARTURE PROCEDURE: **Rwys 14, 25**, climb via runway heading to 6000 then climbing right turn direct LMT VORTAC, thence... **Rwy 32**, climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W, right turns, 070° inbound) to cross LMT VORTAC at or above 8000.

LA GRANDE, OR

LA GRANDE/UNION COUNTY

TAKE-OFF MINIMUMS: **Rwy 12**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min. climb of 500' per NM to 7800.

Rwy 30, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34**, 2900-3 or std. with a min. climb of 350' per NM to 6100. **Rwy 16**, 2000-3 or std. with a min. climb of 500' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 12, 16**, climbing left turn direct LGD NDB, thence; **Rwys 30, 34**, climbing right turn heading 010°, thence; **all aircraft** climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn direct LGD NDB.

LAKEVIEW, OR

LAKE COUNTY

TAKE-OFF MINIMUMS: **Rwy 16**, 3700-5 or std. with a min. climb of 320' per NM to 8800. **Rwy 34**, 2500-5 or std. with a min. climb of 320' per NM to 8500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn via LKV R-163 to LKV VORTAC. **Rwy 34**, climbing left turn heading 320° to intercept LKV R-148 then via LKV R-148 to LKV VORTAC. **All aircraft** continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

LARAMIE, WY

LARAMIE RGNL

DEPARTURE PROCEDURE: **Rwy 3**, turn left. **Rwys 12, 21**, turn right. **All aircraft** climb direct LAR VORTAC, continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above: westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.



LAUREL, MT**LAUREL MUNI**TAKE-OFF MINIMUMS: **Rwys 9, 14, 27, 32**, NA.DEPARTURE PROCEDURE: **Rwy 22**, turn left.**All aircraft** climb direct BIL VORTAC.**LEWISTON, ID****LEWISTON-NEZ PERCE COUNTY**DEPARTURE PROCEDURE: **Rwys 8, 11, 26, 29**, turn left

direct MQG VOR/DME. Continue climb in holding pattern (W, left turns, 066° inbound) to cross MQG VOR/DME at or above 3600.

LEWISTOWN, MT**LEWISTOWN MUNI**TAKE-OFF MINIMUMS: **Rwy 2**, 1800-2 or std. with a min. climb of 280' per NM to 6900. **Rwy 7, 12**, 900-2 or std. with a min. climb of 220' per NM to 6200.DEPARTURE PROCEDURE: **Rwys 2, 30** turn left.**Rwys 7, 12, 20**, turn right. **Rwy 25**, climb runway heading. **All aircraft** climb direct LWT VORTAC.

Continue climb in holding pattern (W, right turns, 094° inbound) to MEA for route of flight.

LEXINGTON, OR**LEXINGTON**TAKE-OFF MINIMUMS: **Rwy 26**, std. with min. climb of 280' per NM to 7600, or 1600-2 ½ for climb in visual conditions. **Rwy 8**, std. with min. climb of 490' per NM to 4200, or 1600-2 ½ for climb in visual conditions.DEPARTURE PROCEDURE: **Rwys 8, 26**, for climb in visual conditions: cross Lexington Airport at or above 3600.NOTES: **Rwy 8**, trees 1.42 NM from departure end of runway, 2386' left of centerline, 100' AGL/2159' MSL.

Trees 1.48 NM from departure end of runway, 2755' left of centerline, 100' AGL/2179' MSL.

LIBBY, MT**LIBBY**TAKE-OFF MINIMUMS: **Rwy 33**, not authorized.**Rwy 15**, use EYSE RNAV DEPARTURE.**LIVINGSTON, MT****MISSION FIELD (LVM)****AMDT 3 09071 (FAA)**TAKE-OFF MINIMUMS: **Rwys 8, 13, 26, 31**, NA-
Environmental.DEPARTURE PROCEDURE: **Rwys 4, 22**, use
LIVINGSTON DEPARTURE.**MADRAS, OR****MADRAS MUNI (S33)****ORIG-A 09043 (FAA)**TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ a min. climb of 298' per NM to 3900 or 1100-2½ for climb in visual conditions. **Rwy 22**, std. w/ a min. climb of 281' per NM to 3900 or 1100-2½ for climb in visual conditions.DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing left turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course. **Rwy 16**, climbing right turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or...
Rwy 22, climb heading 216° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course, or...
... for climb in visual conditions: cross Madras Muni at or above 3400 MSL, then direct DSD VORTAC to 7000 before proceeding on course.**MC CALL, ID****MC CALL MUNI (MYL)****AMDT 2 09127 (FAA)**TAKE-OFF MINIMUMS: **Rwy 34**, NA-Obstacles.DEPARTURE PROCEDURE: **Rwy 16**, use MCCALL DEPARTURE.**MC CHORD AFB (KTCM)****TACOMA, WA 09127**DEPARTURE PROCEDURE: **Rwy 16**, Track heading 160°, turn left to intercept SEA VORTAC R-168 (V495) to SEA 168/37.1 DME (ALDER). Cross ALDER at or above 4000. After ALDER, maintain MEA/MOCA for route of flight. **Rwy 34**, Track heading 340°, then turn right to intercept SEA VORTAC R-168 (V495) to SEA R-168/37.1 DME (ALDER). Cross ALDER at or above 4000. Maintain MEA/MOCA for route of flight.TAKEOFF OBSTACLES: **Rwy 16**, Grove of trees 143' AGL/454' MSL, 4892' from DER, 1353' left of centerline. Grove of trees 102' AGL/419' MSL, 2395' from DER, 1028' right of centerline. Trees 136' AGL/447' MSL, 2867' from DER, 1261' left of centerline. Trees 120' AGL/430' MSL, 2594' from DER, 1113' left of centerline. Trees 85' AGL/394' MSL, 2310' from DER, 957' left of centerline. Trees 83' AGL/392' MSL, 2006' from DER, 959' left of centerline. Trees 87' AGL/389' MSL, 1758' from DER, 971' left of centerline. **Rwy 34**, Tree 106' AGL/348' MSL, 2307' from DER, 1038' left of centerline. Tree 121' AGL/370' MSL, 3190' from DER, 526' right of centerline. Aircraft 65' AGL/317' MSL, 186' from DER, 407' left of centerline. Tree 64' AGL/343' MSL, 2260' from DER, 1036' left of centerline. Building 40' AGL/321' MSL, 1668' from DER, 810' left of centerline.

**MC MINNVILLE, OR**

MC MINNVILLE MUNI (MMV)

AMDT 4 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 400-1¼ or std. w/min. climb of 238' per NM to 400, or alternatively, with standard take-off minimums and normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway. **Rwy 17**, std. w/min. climb of 300' per NM to 1200 or 1800-2½ for climb in visual conditions. **Rwy 22**, std. w/min. climb of 303' per NM to 1400 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to intercept UBG R-170 to UBG VOR/DME, thence ...

Rwy 17,22, climbing left turn to intercept UBG R-183 to UBG VOR/DME, thence ... or for climb in visual conditions: cross Mc Minnville Muni at or above 1800 before proceeding on course. **Rwy 35**, climb heading 347° to intercept UBG R-221 to UBG VOR/DME, thence...

... continue climb in UBG VOR/DME holding pattern (S, left turns, 003° inbound) until reaching MEA for route of flight.

NOTE: **Rwy 4**, multiple trees beginning 2040' from departure end of runway, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL. **Rwy 17**, tree 1719' from departure end of runway, 456' right of centerline, 100' AGL/231' MSL. Tree 1760' from departure end of runway, 627' left of centerline, 100' AGL/257' MSL. **Rwy 22**, multiple trees beginning 282' from departure end of runway, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from departure end of runway, 1319' left of centerline, 100' AGL/284' MSL. **Rwy 35**, multiple trees beginning 1551' from departure end of runway, 229' right of centerline, up to 100' AGL/277' MSL.

MEDFORD, OR

ROGUE VALLEY INTL-MEDFORD (MFR)

AMDT 9 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Obstacles.

Rwy 14, std. w/min. climb of 430' per NM to 4600, or 2900-3 for climb in visual conditions. **Rwy 32**, std. with a min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

Rwy 32, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

...all aircraft climb in OED VORTAC holding pattern (hold NW, right turns, 153° inbound) to cross OED VORTAC at or above 6400.

MISSOULA, MT

MISSOULA INTL (MSO)

AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwys 11, 29**, use GRZLY DEPARTURE.

MOSES LAKE, WA

GRANT COUNTY INTL

NOTE: **Rwy 14R**, antenna 3902' from departure end of runway, 828' right of centerline, 98' AGL/1268' MSL.

Rwy 18, pole 405' from departure end of runway, 334' right of centerline, 30' AGL/1209' MSL. Windscock 496' from departure end of runway, 371' left of centerline, 16' AGL/1195' MSL. **Rwy 32L**, pole 1326' from departure end of runway, 373' left of centerline, 22' AGL/1202' MSL.

MOUNTAIN HOME AFB (KMUO)

MOUNTAIN HOME, ID 07270

Rwy 12,30, 6700-3*

* Or standard with minimum climb of 270'/NM to 9100.

TAKE-OFF OBSTACLES: **Rwy 12**, Terrain 0' AGL/3028' MSL, 1224' from DER, 744' right of centerline. Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline. Terrain 0' AGL/3035' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3022' MSL, 49' from DER, 202' right of centerline. Terrain 0' AGL/3018' MSL, 148' from DER, 328' left of centerline. Terrain 0' AGL/3016' MSL, 300' from DER, 580' left of centerline. Road/Vehicle 15' AGL/3044' MSL, 1147' from DER, 794' right of centerline. Power pole 35' AGL/3069' MSL, 2914' from DER, 940' right of centerline. Tower 30' AGL/3032' MSL, 1067' from DER, 902' right of centerline. Tower 28' AGL/3039' MSL, 1172' from DER, 796' right of centerline. Tower 45' AGL/3054' MSL, 2152' from DER, 1478' left of centerline. **Rwy 30**, Terrain 0' AGL/2995' MSL, 40' from DER, 492' left of centerline. Terrain 0' AGL/2999' MSL, 370' from DER, 467' right of centerline. Terrain 0' AGL/3006' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline. Road/Vehicle 35' AGL/3019' MSL, 954' from DER, 773' left of centerline.

MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI

TAKE-OFF MINIMUMS: **Rwy 10**, 3500-2 or std. with a min. climb of 305' per NM to 7300. **Rwy 28**, 3500-2 or std. with a min. climb of 290' per NM to 7300.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn direct STI NDB. **Rwy 28**, climbing right turn direct STI NDB. All aircraft departing STI NDB bearing 080° CW 340° climb on course. All others continue climb in hold (E, left turns, 271° inbound) to cross STI NDB at or above 7300.

NAMPA, ID

NAMPA MUNI

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

Rwy 29, climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

NOTE: **Rwy 11, 70'** AGL tree, 1225' from departure end of runway, 90' right of centerline.



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

NEWCASTLE, WY

MONDELL FIELD (ECS)

AMDT 3A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5,17,23,35**, NA. **Rwy 13**, 200-1 std. with a min. climb of 275' per NM to 4400.
Rwy 31, 300-1 std. with a min. climb of 300' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 31**, climbing left turn.
All aircraft climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

NOTE: **Rwy 13**, fence posts, beginning 299' from DER, 218' left of centerline, up to 10' AGL/4190' MSL. Light on antenna 1951' from DER, 879' left of centerline, 84' AGL/4244' MSL. **Rwy 31**, multiple poles, beginning 74' from DER, 237' right of centerline, up to 20' AGL/4200' MSL. Bush 5787' from DER, 1441' right of centerline, 13' MSL/4363' MSL. Railroad 735' from DER, 314' right of centerline 30' AGL/4202' MSL. Road 207' from DER, 254' right of centerline, 15' AGL/4187' MSL.

NEWPORT, OR

NEWPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, NA. **Rwy 16**, 500-2 or std. with a min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 2**, NA. **Rwy 16**, turn right. **Rwy 34**, turn left. Aircraft departing via ONP R-180 CW R-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200.

NORTH BEND, OR

SOUTHWEST OREGON RGNL (OTH)

AMDT 4B 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 800-2 or std. with a min. climb of 340' per NM to 900. **Rwy 13**, 800-2. **Rwys 16,34**, NA-Rwy closed. **Rwy 31**, 300-2 or std. with a min. climb of 240' per NM to 400.

DEPARTURE PROCEDURE: **Rwys 4,31**, turn left. **Rwys 13,22**, turn right. **All aircraft** climb via OTH VORTAC R-250 to 1300 then climbing right turn direct OTH VORTAC.

NOTE: **Rwy 13**, spire 3468' from departure end of runway, 1128' left of centerline, 55' AGL/243' MSL, multiple trees beginning 3068' from departure end of runway, 78' left of centerline, up to 132' AGL/291' MSL.

OAK HARBOR, WA

A J EISENBERG (OKH)

ORIG-A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1. **Rwy 25**, 300-1 DEPARTURE PROCEDURE: **Rwy 7**, climb via heading 071° to 2000, then climbing right turn direct CVV VOR/DME. Continue climb on course. **Rwy 25**, climb via heading 251° to 2100, then climbing left turn direct CVV VOR/DME. Continue climb on course.

NOTE: **Rwy 7**, multiple trees beginning 1167' from DER, 212' left of centerline, up to 80' AGL/319' MSL. Multiple trees beginning 664' from DER, 208' right of centerline, up to 80' AGL/299' MSL. Fence 612' from DER, right and left of centerline, 10' AGL/229' MSL. Multiple bushes beginning 240' from DER, 64' left of centerline, up to 8' AGL/227' MSL. **Rwy 25**, cars on road 87' from DER, left and right of centerline, up to 15' AGL/174' MSL. Multiple trees beginning 2271' from DER, right and left of centerline, up to 80' AGL/279' MSL.

OLYMPIA, WA

OLYMPIA RGNL (OLM)

AMDT 5A 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-2 or std. with a min. climb of 706' per NM to 600, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 085° to 1000 then climbing left turn direct OLM VORTAC, thence... **Rwy 17**, climb heading 172° to 1200 then climbing right turn direct OLM VORTAC, thence... or climb in visual conditions to cross OLM VORTAC at or above 2300, thence... **Rwys 26,35**, climbing right turn direct OLM VORTAC, thence...

...continue climb in OLM VORTAC holding pattern (south, right turn, 356° inbound) to cross OLM VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, multiple trees beginning 880' from DER, 214' left of centerline, up to 100' AGL/343' MSL. Multiple trees beginning 1636' from DER, 131' right of centerline, up to 100' AGL/320' MSL. **Rwy 17**, multiple trees beginning 1008' from DER, 24' left of centerline, up to 100' AGL/490' MSL. Multiple trees beginning 752' from DER, 3' right of centerline, up to 100' AGL/370' MSL. **Rwy 26**, multiple trees and WSK on building beginning 475' from DER, 595' left of centerline, up to 100' AGL/330' MSL. Multiple trees beginning 338' from DER, 339' right of centerline, up to 100' AGL/309' MSL. **Rwy 35**, multiple trees beginning 2176' from DER, 198' left of centerline, up to 100' AGL/313' MSL. Multiple trees and field light on hangar beginning 657' from DER, 621' right of centerline, up to 100' AGL/315' MSL.

OMAK, WA

OMAK

TAKE-OFF MINIMUMS: **Rwy 17**, 2200-2 or std. with a min. climb of 300' per NM to 4200. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use GETNG RNAV DEPARTURE. **Rwy 35**, NA.

ONTARIO, OR

ONTARIO MUNI (ONO)

AMDT 3 08325 (FAA)

DEPARTURE PROCEDURE: **Rwy 32**, climb to 9600 on a heading between 010° CW to 141° from departure end of runway or minimum climb of 280' per NM to 9600 for all other courses.

NOTE: **Rwy 14**, multiple trees, poles, and buildings beginning 90' from departure end of runway, 157' right of centerline up to 120' AGL/2314' MSL. Multiple trees, poles, and buildings beginning 502' from departure end of runway, 506' left of centerline up to 120' AGL/2314' MSL. **Rwy 32**, multiple trees, poles, and buildings beginning 340' from departure end of runway, 405' left of centerline up to 100' AGL/2458' MSL. Multiple trees, poles, and buildings beginning 2' from departure end of runway, 472' right of centerline up to 100' AGL/2431' MSL.

PASCO, WA

TRI-CITIES

DEPARTURE PROCEDURE: **All runways**, climb runway heading to 1000, thence... **Rwy 12**, turn left. All others turn right. **All aircraft** climb direct PSC VOR/DME before proceeding on course.

PENDLETON, OR

EASTERN OREGON RGNL AT PENDLETON (PDT)

AMDT 3 09183 (FAA)

DEPARTURE PROCEDURE: **Rwys 7, 29, 34**, climbing left turn direct PDT VORTAC, thence...

Rwys 11, 16, climbing right turn direct PDT VORTAC, thence...

Rwy 25, climb direct PDT VORTAC, thence...

...continue climb in PDT VORTAC holding pattern (West, left turn, 073° inbound) to cross PDT VORTAC at or above MEA before proceeding on course.

NOTE: **Rwy 16**, multiple trees beginning 232' from DER, 348' right of centerline, up to 100' AGL/1579' MSL.

Rwy 25, multiple antennas and terrain beginning 203' from DER, 259' left of centerline, up to 13' AGL/1512' MSL.

Rwy 29, terrain 189' from DER, 247' left of centerline, 1493' MSL.

PINEDALE, WY

PINEDALE/RALPH WENZ FIELD (PNA)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 310' per NM to 8300, or 4900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn to 10000 via heading 190° and BPI R-040 to BPI VOR/DME before proceeding on course. **Rwy 29**, climbing left turn to 10000 via heading 230° and BPI R-020 to BPI VOR/DME before proceeding on course or for climb in visual conditions: cross Pinedale/Ralph Wenz Field at or above 11800 before proceeding on course.

PLENTYWOOD, MT

SHER-WOOD

NOTE: **Rwy 12**, multiple bushes beginning 47' from departure end of runway, 71' left of centerline, up to 12' AGL/2251' MSL. Multiple bushes beginning 362' from departure end of runway, 514' right of centerline, up to 12' AGL/2251' MSL. **Rwy 30**, multiple bushes and road beginning 68' from departure end of runway, 75' right of centerline, up to 12' AGL/2303' MSL. Multiple bushes beginning 217' from departure end of runway, 60' left of centerline, up to 12' AGL/2296' MSL.

POCATELLO, ID

POCATELLO RGNL (PIH)

AMDT 6 08353 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 400-2 or std. w/ min. climb of 270' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 3**, climbing left turn to 7500 via heading 240 and PIH R-269 to SICOY/PIH 10 DME. **Rwys 17, 21**, climbing right turn to 7500 via PIH R-269 to SICOY/PIH 10 DME. **Rwy 35**, climbing left turn to 7500 via heading 230 and PIH R-269 to SICOY/PIH 10 DME.

DME REQUIRED.

NOTE: **Rwy 3**, trees beginning 3132' from departure end of runway, 562' left of centerline, up to 100' AGL/4549' MSL. Rod on obstruction light 978' from departure end of runway, 759' right of centerline, 37' AGL/4486' MSL.

Rwy 17, transmission tower 1.19 NM from departure end of runway, 2395' left of centerline, 124' AGL/4693' MSL. Trees beginning 1.63 NM from departure end of runway, 2642' left of centerline, up to 100' AGL/4759' MSL. Fence 112' from departure end of runway, 416' right of centerline, 4' AGL/ 4453' MSL. Bush 30' from departure end of runway, 261' right of centerline, 6' AGL/4445' MSL. Fence 208' from departure end of runway, 421' right of centerline, 10' AGL/4449' MSL. **Rwy 21**, antenna 543' from departure end of runway, 309' left of centerline, 17' AGL/4466' MSL. Obstruction light 543' from departure end of runway, 286' left of centerline, 13' AGL/ 4462' MSL. **Rwy 35**, electrical equipment 197' from departure end of runway, 248' left of centerline, 10' AGL/ 4454' MSL.

POLSON, MT

POLSON

TAKE-OFF MINIMUMS: **Rwy 18**, N/A-extremely precipitous terrain. **Rwy 36**, standard with a min. climb of 270' per NM to 8400'.

DEPARTURE PROCEDURE: **Rwy 36**, Use ANGIL RNAV DEPARTURE.

NOTES: **Rwy 36**, Road 509' from departure end of runway, 2955' MSL. Trees 2.39 NM from departure end of runway, 3383' left of centerline, 100' AGL/3179' MSL. Rapidly rising precipitous terrain left and right of centerline running along southern Flathead River ridges.

PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Copter departure, climb from landing area direct to EDIZ HOOK NDB. Continue climb in holding pattern (NE, right turns, 237° inbound) to MEA for direction of flight.

WILLIAM R FAIRCHILD INTL

DEPARTURE PROCEDURE: **Rwys 8, 13, 26, 31**, use WATTR FIVE DEPARTURE.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

PORTLAND, OR

PORTLAND INTL (PDX)

AMDT 6 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 500-3 or std. w/ min. climb of 400' per NM to 600. **Rwy 10L/R**, std. w/ min. climb of 270' per NM to 2900. **Rwy 21**, std. w/ min. of 310' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 025° to 700, then climbing left turn direct BTG VORTAC, thence ... **Rwys 10L, 10R**, climb heading 099° to 500, then climbing left turn direct BTG VORTAC, thence ... **Rwy 21**, climb heading 205.03 to 500, then climbing right turn direct BTG VORTAC, thence ... **Rwys 28L, 28R**, climb heading 279° to 500, then climbing right turn direct BTG VORTAC, thence ... continue climb in BTG VORTAC holding pattern (hold NW, right turns, 149° inbound) to cross BTG VORTAC at or above MCA/MEA before proceeding on course.

NOTE: **Rwy 3**, signs, tower, trees, and vehicle on road beginning 468' from departure end of runway, 28' left of centerline, up to 100' AGL/449' MSL. Poles, trees, and vehicle on road beginning 609' from departure end of runway, 7' left of centerline, up to 100' AGL/416' MSL. **Rwy 10L**, rising terrain and vehicle on road beginning 7' from departure end of runway, 376' left of centerline, up to 17' AGL/60' MSL. **Rwy 10R**, pole 1996' from departure end of runway, 758' right of centerline, 54' AGL/74' MSL. note: **Rwy 21**, trees beginning 1319' from departure end of runway, 155' right of centerline, up to 100' AGL/318' MSL. Poles and trees beginning 353' from departure end of runway, 36' left of centerline, up to 100' AGL/317' MSL. **Rwy 28L**, trees 1873' from departure end of runway, 836' left of centerline, 50' AGL/88' MSL. **Rwy 28R**, multiple signs, poles, and vehicle on road beginning 876' from departure end of runway, 654' right of centerline, up to 27' AGL/69' MSL.

PORTLAND-HILLSBORO

TAKE-OFF MINIMUMS: **Rwy 30**, 200-1¼ or std. with a min. climb of 223' per NM to 500. Alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1600' prior to departure end of runway.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn direct UBG VOR/DME... **Rwys 2, 20, 30**, climbing left turn direct UBG VOR/DME...

...all aircraft climb in UBG VOR/DME holding pattern (west, right turn, 108° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 2**, multiple roads beginning 246' from departure end of runway, 3' right of centerline, up to 15' AGL/220' MSL. **Rwy 12**, multiple trees beginning 1842' from departure end of runway, 222' left of centerline, up to 125' AGL/324' MSL. Multiple trees beginning 3629' from departure end of runway, 46' right of centerline, up to 143' AGL/332' MSL. **Rwy 20**, multiple trees and pole beginning 967' from departure end of runway, 118' left of centerline, up to 93' AGL/292' MSL. Vent of hangar 63' from departure end of runway, 428' left of centerline, 26' AGL/225' MSL. Multiple trees and antenna on building beginning 965' from departure end of runway, 449' right of centerline, up to 74' AGL/273' MSL. **Rwy 30**, multiple trees beginning 1664' from departure end of runway, 623' right of centerline, up to 194' AGL/363' MSL. Pole 702' from departure end of runway, 603' left of centerline, 26' AGL/215' MSL.

PORTLAND, OR (CON'T)

PORTLAND-TROUTDALE

TAKE-OFF MINIMUMS: **Rwy 7**, 3600-2 or std. with a min. climb of 380' per NM to 4100. **Rwy 25**, 900-2 or std. with a min. climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 7**, turn left.

Rwy 25, turn right. All aircraft climb via BTG R-125 direct BTG VORTAC. Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000; all others 2500.

POWELL, WY

POWELL MUNI

TAKE-OFF MINIMUMS: **Rwy 3, 16, 21, 34**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, turn right.

Rwy 31, turn left. All aircraft climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above 8800

PRINEVILLE, OR

PRINEVILLE (S39)

AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/ min. climb of 350 feet per NM to 6500, or 2400-3 for climb in visual conditions. **Rwy 15**, std. w/ min. climb of 470' per NM to 6200, or 2400-3 for climb in visual conditions. **Rwy 28**, std. w/ min. climb of 450' per NM to 6700, or 2400-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 380' per NM to 6700, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 102° to 6500 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 15**, climb heading 154° to 6200 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

Rwy 28, climb heading 282° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 33**, climb heading 334° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

NOTE: **Rwy 10**, trees beginning 2693' from departure end of runway, 545' right of centerline, up to 100' AGL/3339' MSL. **Rwy 15**, trees beginning 1129' from departure end of runway, 697' right of centerline, up to 100' AGL/3319' MSL. **Rwy 28**, trees beginning 1803' from departure end of runway, 74' right of centerline, up to 100' AGL/3319' MSL. **Rwy 33**, trees beginning 2636' from departure end of runway, 379' right of centerline, up to 100' AGL/3319' MSL.

PULLMAN-MOSCOW, WA

PULLMAN-MOSCOW RGNL

TAKE-OFF MINIMUMS: **Rwy 5**, 300-1½ with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. **Rwy 23**, 300-1 or std. with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions; cross Pullman-Moscow Rgnl at or above 4500. **Rwy 23**, climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 5**, multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL. Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. **Rwy 23**, multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.

PUYALLUP, WA

PIERCE COUNTY-THUN FIELD (PLU)

AMDT 1A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16, 34**, 300-1.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn. **Rwy 34**, climb runway heading. **All aircraft** climb via SEAR-158 to COTNY INT/SEA 18.1 DME. Continue in COTNY holding pattern (Hold S, left turns, 338° inbound) to depart COTNY at or above: 001° CW 090° 3500, 090° 3500, 091° CW 120° 10,400, 121° CW 170° 2700, 171° CW 360° 1500.

NOTE: **Rwy 16**, light pole 511' from DER, 567' right of centerline, 40' AGL/552' MSL. Multiple poles on building beginning 187' from DER, 416' left of centerline, up to 575' MSL. Multiple trees beginning 363' from DER, 656' left of centerline to 540' right of centerline, up to 662' MSL. Vehicles on road beginning 1149' from DER, 512' right of centerline, up to 15' AGL/582' MSL. Terrain beginning 1293' from DER, 529' left of centerline to 352' right of centerline, up to 581' MSL. Pipe 1520' from DER, 303' left of centerline, 574' MSL. **Rwy 34**, multiple trees beginning 58' from DER, 591' left of centerline to 1029' right of centerline, up to 694' MSL. Flagpole 1155' from DER, 464' left of centerline, 578' MSL. Building 564' from DER, 410' left of centerline, 555' MSL.

RAWLINS, WY

RAWLINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 600-2 or std. with a min. climb of 440' per NM to 7500. **Rwy 22**, 1500-2 or std. with a min climb of 365' per NM to 8700. **Rwys 10, 28, NA**.

DEPARTURE PROCEDURE: **Rwy 4**, turn right. **Rwy 22**, turn left. Climb to 10000 via RWL R-200 and CKWR-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWL R-200 to assigned route then climb on course.

REDMOND, OR

ROBERTS FIELD (RDM)

AMDT 5 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, std. w/ min. climb of 269' per NM to 4700. **Rwy 28**, std. w/ min. climb of 276' per NM to 4800.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn via heading 265° and DSD R-047 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 10**, climbing right turn via heading 240° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 22**, climb heading 222° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 28**, climbing left turn via heading 275° and DSD R-045 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 28**, numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

RENTON, WA

RENTON MUNI (RNT)

AMDT 6 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 400' per NM to 800, or 1100-2½ for climb in visual conditions. **Rwy 34**, 500-2½ or std. with a min. climb of 315' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 16**, Climb heading 154° to 700, then climbing right turn direct SEA VORTAC, then..., or for climb in visual conditions: cross Renton Airport westbound at or above 1000 MSL, then proceed on SEA R-029 to SEA VORTAC, then...,

Rwy 34, Climb heading 334° to 700, then climbing left turn direct SEA VORTAC then..., ...Climb in SEA VORTAC holding pattern (E, LT, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

NOTES: **Rwy 16**, Trees, towers, lights and blast shield beginning 286' from departure end of runway, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and sign beginning 40' from departure end of runway, 54' right of centerline, up to 100' AGL/297' MSL. **Rwy 34**, Trees and terrain beginning 1.6 NM from departure end of runway, 104' left of centerline, up to 100' AGL/485' MSL. Trees, terrain and wood piling beginning 75' from departure end of runway, 7' right of centerline, up to 100' AGL/426' MSL.

REXBURG, ID

REXBURG-MADISON COUNTY

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn. **Rwy 35**, climbing left turn. **All aircraft** climb via IDA VOR/DME R-015 to RIGBY Int to MEA for route of flight before proceeding on course.

NOTE: **Rwy 17**, 100' AGL trees 125' from departure end of runway, 350' left of centerline. **Rwy 35**, 100' AGL trees 350' from departure end of runway, 450' right of centerline. 100' AGL trees 750' from departure end of runway, 500' left of centerline.

RICHLAND, WA

RICHLAND

TAKE-OFF MINIMUMS: **Rwy 1**, 200-1 or std. w/ min. climb of 310' per NM to 700. **Rwy 19**, std. w/ min. climb of 480' per NM to 2300, or 1800-2½ for climb in visual conditions. **Rwy 26**, 500-2½ or std. w/ min. climb of 309' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn via heading 070° and PSC R-301 to PSC VOR/DME, thence... **Rwy 8**, climbing right turn direct PSC VOR/DME, thence... **Rwy 19**, climbing right turn via heading 040° and PSC R-269 to PSC VOR/DME, or for climb in visual conditions: cross Richland Airport at or above 2000 then proceed on PSC R-269, to PSC VOR/DME thence... **Rwy 26**, climbing right turn via heading 070° and PSC R-287 to PSC VOR/DME, thence... climb in PSC VOR/DME holding pattern (hold East, right turn, 291° inbound) to cross PSC VOR/DME at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 1**, crane and multiple poles 752' from departure end of runway, 477' right of centerline, up to 110' AGL/520' MSL. Trees 43' from departure end of runway, 414' left of centerline, 100' AGL/407' MSL. **Rwy 8**, multiple trees and railroad beginning 400' from departure end of runway, 252' right of centerline, up to 100' AGL/469' MSL. Multiple trees and railroad beginning 204' from departure end of runway, 241' left of centerline, up to 100' AGL/469' MSL. **Rwy 19**, multiple trees 64' from departure end of runway, 169' right of centerline, up to 100' AGL/679' MSL. Multiple trees, terrain, and buildings 22' from departure end of runway, 30' left of centerline, up to 100' AGL/479' MSL. **Rwy 26**, multiple trees, fence, and terrain beginning 458' from departure end of runway, 230' left of centerline, up to 100' AGL/839' MSL. Multiple posts, antenna, and terrain beginning 164' from departure end of runway, 255' right of centerline, up to 18' AGL/417' MSL.

RIVERTON, WY

RIVERTON RGNL

DEPARTURE PROCEDURE: Aircraft departing RIW R-280 CW R-170 climb on course. All others climb to 6600, then continue climb direct RIW VOR/DME to cross RIW VOR/DME at or above 7500 before proceeding on course.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER COUNTY

DEPARTURE PROCEDURE: Climb direct OCS VORTAC. Aircraft departing OCS R-205 CW R-170 climb on course. All others climb in the OCS holding pattern (E, right turns, 260° inbound) to cross OCS VORTAC at or above 7300.

RONAN, MT

RONAN (7S0)

ORIG 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 260' per NM to 9900 or 6100-3 for climb in visual conditions. **Rwy 34**, std. w/ min. climb of 250' per NM to 9900 or 6100-3 in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 8800 on a heading between 177° CW to 336° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. **Rwy 34**, climb to 8800 on a heading between 336° CCW to 177° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course.

NOTE: **Rwy 16**, tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL. **Rwy 34**, building 158' from DER, 370' left of centerline 40' AGL/3130' MSL. Tree 1358' from DER, 556' left of centerline 50' AGL/3149' MSL.

ROSEBURG, OR

ROSEBURG RGNL (RBG)

AMD T 5A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 642' per NM to 2000, or 1700-3 for climb in visual conditions. **Rwy 34**, std. with a min. climb of 760' per NM to 2000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb direct RBG VOR/DME, or climb in visual conditions to cross Roseburg Airport southbound at or above 2200, then direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DME to cross at or above the MCA or MEA for route of flight. **Rwy 34**, climb via heading 342° to 4000, or climb in visual conditions to cross Roseburg Airport northbound at or above 2200 and then via heading 342° to 4000. Then climbing left turn direct RBG VOR/DME, to cross RBG VOR/DME at or above MCA or MEA for route of flight. Aircraft that have not reached the MCA or MEA for route of flight continue climb via RBG R-157 and right turn direct RBG VOR/DME.

NOTE: **Rwy 16**, tower 1.56 NM from departure end of runway, 2231' right of centerline, 50' AGL/1201' MSL, tree 1.47 NM from departure end of runway, 1560' right of centerline, 21' AGL/980' MSL, tree 1.46 NM from departure end of runway, 1298' right of runway centerline, 45' AGL/964' MSL, pole 1.36 NM from departure end of runway, 921' right of centerline, 75' AGL/914' MSL, rod on airway beacon 1.29 NM from departure end of runway, 409' right of centerline, 52' AGL/891' MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL, obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557' MSL. **Rwy 34**, tree 1.10 NM from departure end of runway, 2003' left of runway centerline, 60' AGL/1179' MSL. Tree 5165' from departure end of runway, 1744' left of centerline, 64' AGL/1023' MSL. Obstruction light on pole 4850' from departure end of runway, 56' left of centerline, 15' AGL/894' MSL. Tree 4785' from departure end of runway, 48' left of runway centerline, 23' AGL/862' MSL. Tree 1.41 NM from departure end of runway, 1826' left of runway centerline, 17' AGL/896' MSL. Tree 4079' from departure end of runway, 508' left of runway centerline, 21' AGL/780' MSL. Tree 5067' from departure end of runway, 265' right of centerline, 43' AGL/802' MSL. Tree 4260' from departure end of runway, 345' right of centerline, 42' AGL/761' MSL. Tree 1465' from departure end of runway 329' right of runway centerline, 100' AGL/642' MSL. Tree 913' from departure end of runway, 217' right of runway centerline, 100' AGL/622' MSL. Tree 647' from departure end of runway, 345' right of runway centerline, 100' AGL/615' MSL. Hill 1065' from departure end of runway, 299' right of runway centerline 608' MSL. Trees beginning 60' from departure end of runway, 117' left of runway centerline, up to 16' AGL/554' MSL. Trees beginning 242' from departure end of runway, 209' right of runway centerline, up to 56' AGL/584' MSL. Vehicle on road 265' from departure end of runway, 229' right of runway centerline, 15' AGL/560' MSL. Multiple signs beginning 792' from departure end of runway, 550' left of runway centerline, up to 60' AGL/565' MSL. Bush 94' from departure end of runway, 228' right of runway centerline, 19' AGL/547' MSL. Bush 202' from departure end of runway, 92' left of centerline, 7' AGL/535' MSL. Pole 640' from departure end of runway, 354' left of runway centerline, 29' AGL/557' MSL.

SALEM, OR

MCNARY FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 600-2 or std. with a min. climb of 240' per NM to 800. **Rwy 16**, 600-2 or std. with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or; **Rwys 31, 34**, turn right. **Rwy 16**, turn left. **Rwy 13**, climb heading 130°. **All aircraft** climb direct TURN O LOM/Int. Continue climb in holding (SE, left turns, 310° inbound) to cross TURN O LOM/INT at or above MEA for route of flight.

SALMON, ID

LEMHI COUNTY

TAKE-OFF MINIMUMS: **Rwy 17**, NA. **Rwy 35**, 4300-5 or std. with a min. climb of 390' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 17**, NA. **Rwy 35**, climb runway heading to 8000, then climbing left turn to 11,300 direct LKT VOR/DME before proceeding on course.

SANDPOINT, ID

SANDPOINT

TAKE-OFF MINIMUMS: **Rwy 1**, 4200-2 or std. with a min. climb of 520' per NM to 5800. **Rwy 19**, 2200-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn to COE VOR/DME via heading 200° and COE R-002. **Rwy 19**, climbing left turn to COE VOR/DME via heading 140° and COE R-002.

SARATOGA, WY

SHIVELY FIELD

TAKE-OFF MINIMUMS: **Rwy 23**, 400-1 or std. with a min. climb of 220' per NM to 7400.

DEPARTURE PROCEDURE: **Rwy 5**, turn left heading 280°. **Rwy 23**, turn right heading 340°. **All aircraft** climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPARK

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn direct BTG VORTAC. **Rwy 33**, climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for direction of flight.

NOTE: **Rwy 15**, 158' MSL tree 470' from departure end of runway, 499' right of centerline. **Rwy 33**, cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

SCOBEY, MT

SCOBEY

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 280' per NM to 3400.

SEATTLE, WA

BOEING FIELD/KING COUNTY INTL

TAKE-OFF MINIMUMS: **Rwy 13L**, 500-3 w/ min. climb of 232' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 13R**, std. w/ a min. climb of 476' per NM to 900, or 500-3 w/ a min. climb of 386' per NM to 900, or 1000-2½ for climb in visual conditions. **Rwy 31L**, std. w/ a min. climb of 386' per NM to 800, or 300-1½ w/ min. climb of 235' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 31R**, std. w/ a min. climb of 334' per NM to 900, or 400-1¾ w/ min. climb of 216' per NM to 900, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. All aircraft climb direct to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/King County Intl Airport at or above 900, then climb to 3000 via SEA R-344 to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000.

NOTES: **Rwy 13L**, multiple trees, towers, antennas and building beginning 402' from departure end of runway, 411' left of centerline, up to 127' AGL/479' MSL. **Rwy 13R**, multiple trees and poles beginning 35' from departure end of runway, 154' left of centerline, up to 66' AGL/485' MSL. Multiple trees and poles beginning 501' from departure end of runway, 3' right of centerline, up to 77' AGL/195' MSL. **Rwy 31L**, multiple trees, fence, and building beginning 250' from departure end of runway, 253' left of centerline, up to 71' AGL/101' MSL. Multiple trees and floodlights beginning 1245' from departure end of runway, 447' right of centerline, up to 71' AGL/239' MSL. **Rwy 31R**, multiple trees, hangers, towers, poles and building beginning 12' from departure end of runway, 389' right of centerline, up to 103' AGL/350' MSL. Multiple obstruction lights beginning 214' from departure end of runway, 99' left of centerline, up to 71' AGL/101' MSL.

SEATTLE-TACOMA INTL (SEA)

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16C, 16R**, climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...

Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence... climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 16L**, trees beginning 2908' from departure end of runway, 1064' right of centerline, up to 100' AGL/476' MSL. **Rwy 16C**, trees beginning 4477' from departure end of runway, 484' right of centerline, up to 100' AGL/507' MSL. **Rwy 16R**, trees, antenna on building and light pole beginning 488' from departure end of runway, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from departure end of runway, 587' right of centerline, up to 100' AGL/468' MSL. **Rwy 34L**, fence 189' from departure end of runway, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from departure end of runway, 857' left of centerline, up to 100' AGL/522' MSL.

SHELBY, MT

SHELBY

TAKE-OFF MINIMUMS: **Rwy 5**, 200-1¼ or std. w/ min. climb of 212' per NM to 3700, or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 5**, fence post 320' from departure end of runway, 162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from departure end of runway, 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from departure end of runway, 1242' left of centerline, 75' AGL/3604' MSL.

Rwy 11, truck on road 906' from departure end of runway, 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from departure end of runway, 26' right of centerline, 75' AGL/3495' MSL, tree 1561' from departure end of runway, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from departure end of runway, 174' left of centerline, 22' AGL/3451' MSL.

SHELTON, WA

SANDERSON FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, std. w/ a min. climb of 312' per NM to 4000, or 1500-2½ for a climb in visual conditions. **Rwy 23**, std. w/ a min. climb of 414' per NM to 4000, or 1500-2½ for a climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000. **Rwy 23**, climbing left turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEA R-230 to cross CARRO intersection at or above 4000.

NOTE: **Rwy 5**, multiple trees beginning 550' from departure end of runway, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from departure end of runway, 70' right of centerline, up to 80' AGL/352' MSL. **Rwy 23**, multiple trees beginning 52' from departure end of runway, 149' left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from departure end of runway, 153' right of centerline, up to 155' AGL/486' MSL.

SHERIDAN, WY**SHERIDAN COUNTY**

TAKE-OFF MINIMUMS: **Rwy 5**, 700-3 or std. w/ min. climb of 318' per NM to 5100, or... **Rwy 14**, 800-3 or std. w/ min. climb of 263' per NM to 5100, or... **Rwy 23**, 900-3 or std. w/ min. climb of 348' per NM to 5100, or...
...1400/3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn via SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 14**, climbing left turn via heading 320° and SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 23**, climbing right turn via SHR R-153 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 32**, climb via heading 320° and SHR R-106 to SHR VORTAC, thence...
...climb in holding pattern (hold northwest, left turn, 133° inbound) to cross SHR VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 5**, multiple trees beginning 101' from departure end of runway, 188' left of centerline, up to 80' AGL/3991' MSL. **Rwy 23**, fence 1201' from departure end of runway, 10' left of centerline, 20' AGL/4060' MSL. Building 1949' from departure end of runway, 415' left of centerline, 17' AGL/4077' MSL. Tree 3337' from departure end of runway, 391' right of centerline, 43' AGL/4143' MSL. **Rwy 32**, antenna 53' from departure end of runway, 398' right of centerline, 20' AGL/4020' MSL.

SIDNEY, MT**SIDNEY-RICHLAND MUNI**

TAKE-OFF MINIMUMS: **Rwy 28**, 400-2 or std. with a min. climb of 260' per NM to 2300.

SNOHOMISH, WA**HARVEY FIELD (S43)****ORIG 09127 (FAA)**

TAKE-OFF MINIMUMS: **Rwys 15R, 33L**, NA-obstacles. **Rwy 15L**, std. w/ min. climb of 353' per NM to 1100, or 1200-2½ for climb in visual conditions. **Rwy 33R**, std. w/ min. climb of 475' per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15L**, climbing right turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence... **Rwy 33R**, climb on 329° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence...

... aircraft departing WATON LOM on bearings 150° CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 339° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE: **Rwy 15L**, tree 81' from DER, 177' right of centerline, 40' AGL/106' MSL. Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. **Rwy 33R**, powerline 139' from DER, 226' left of centerline, 40' AGL/56' MSL. Tree 298' from DER, 205' right of centerline, 104' AGL/121' MSL. Tower 5708' from DER, 1956' right of centerline, 206' AGL/300' MSL.

SPOKANE, WA FELTS FIELD

TAKE-OFF MINIMUMS: **Rwys 3L, 3R**, std. w/ min. climb of 400' per NM to 3600, or 1600-3 for climb in visual conditions. **Rwy 21L**, std. w/ min. climb of 360' per NM to 3100, or 1600-3 for climb in visual conditions. **Rwy 21R**, std. w/ min climb of 375' per NM to 3100, or 1600-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3L, 3R**, climb to 3600, then climbing right turn heading 210° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport southbound at or above 3400, then via GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA or MEA for route of flight, before proceeding on course. **Rwys 21L, 21R**, climb to 2800, then climbing left turn heading 190° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport southbound at or above 3400, then via GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA or MEA for route of flight, before proceeding on course.

NOTE: **Rwy 3L**, multiple trees beginning 5000' from departure end of runway, 530' left of centerline, up to 104' AGL/2513' MSL. Tree 1854' from departure end of runway, 773' right of centerline, 54' AGL/2030' MSL, tree 2365' from departure end of runway, 798' right of centerline, 61' AGL/2037' MSL. **Rwy 3R**, multiple trees beginning 5016' from departure end of runway, 1033' left of centerline, up to 104' AGL/2529' MSL, pole 2.5 NM from departure end of runway, 2059' left of centerline, 62' AGL/2454' MSL, hangar 92' from departure end of runway, 341' right of centerline, 5' AGL/1967' MSL, NDB 925' from departure end of runway, 270' right of centerline, 25' AGL/1987' MSL, multiple trees beginning 1870' from departure end of runway, 271' right of centerline, up to 128' AGL/3560' MSL. **Rwy 21L**, pole 316' from departure end of runway, 302' left of centerline, 33' AGL/1992' MSL, tree 926' from departure end of runway, 362' left of centerline, 50' AGL/2006' MSL, building 1057' from departure end of runway, 158' left of centerline, 19' AGL/1975' MSL, building 1061' from departure end of runway, 110' left of centerline, 19' AGL/1975' MSL. Elevator 4080' from departure end of runway, 598' left of centerline, 134' AGL/2080' MSL. **Rwy 21R**, hangar 204' from departure end of runway, 496' left of centerline, 13' AGL/1969' MSL, pole 659' from departure end of runway, 404' left of centerline, 26' AGL/1979' MSL, building, 946' from departure end of runway, 230' left of centerline, 24' AGL/1973' MSL, pole 1399' from departure end of runway, 2' left of centerline, 33' AGL/1982' MSL, elevator 2655' from departure end of runway, 1097' left of centerline, 134' AGL/2080' MSL, tree 189' from departure end of runway, 511' right of centerline, 46' AGL/1979' MSL, tree 480' from departure end of runway, 404' right of centerline, 43' AGL/1979' MSL, pole 1252' from departure end of runway, 55' right of centerline, 29' AGL/1975' MSL, pole 1427' from departure end of runway, 13' right of centerline, 33' AGL/1982' MSL.

SPOKANE INTL

DEPARTURE PROCEDURE: **All aircraft** climb direct GEG VORTAC. Continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeastbound V120-448, 5200; eastbound V2, 5200, southeast thru westbound climb on course.

STEVENSVILLE, MT STEVENSVILLE

TAKE-OFF MINIMUMS: **Rwy 12**, do not exceed 210 knots until established on MSOR-163. **Rwy 30**, do not exceed 210 knots until established on MSO R-160.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 335 and MSO R-163 to MSO VOR/DME climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course. **Rwy 30**, climbing right turn via heading 025° and MSO R-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course.

SUNRIVER, OR SUNRIVER

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 360' per NM to 4400. **Rwy 36**, 600-2 or std. with a min. climb of 240' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 7000 then climbing left turn direct DSD VORTAC. **Rwy 36**, climb direct to DSD VORTAC. Then **all aircraft** climb on course.

TACOMA, WA TACOMA NARROWS

TAKE-OFF MINIMUMS: **Rwy 35**, 400-1 or std. with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: **Rwy 17**, turn right, climb via heading 230° to intercept OLM R-009 then direct OLM VORTAC. **Rwy 35**, turn left, climb via heading 270° to intercept SEA R-230 then direct CARRO INT. Continue climb in holding (SW, right turns, 047° inbound) to MEA or assigned altitude for route of flight.

THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, CAT A,B 1100-2 or std. with a min. climb of 350' per NM to 1500. CAT C,D 2600-3 or std. with a min. climb of 475' per NM to 3100.

Rwy 7, 900-3 or std. with a min. climb of 330' per NM to 1200. **Rwy 12**, 1400-3 or std. with a min. climb of 500' per NM to 2000. **Rwy 20**, 1800-3 or std. with a min. climb of 470' per NM to 2200. **Rwy 25**, NA. **Rwy 30**, 2900-3 or std. with a min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: **Rwys 2, 7**, climbing right turn heading 120°. **Rwy 12**, climb via runway heading. **Rwys 20, 30**, climbing left turn heading 120°. **All aircraft** intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

TILLAMOOK, OR TILLAMOOK

TAKE-OFF MINIMUMS: **Rwys 1, 13, 19**, NA. **Rwy 31**, 2000-3 or std. with a min. climb of 350' per NM to 4500.

DEPARTURE PROCEDURE: **Rwys 1, 13, 19**, NA. **Rwy 31**, use FETUJ RNAV DEPARTURE.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA.

DEPARTURE PROCEDURE: Aircraft departing on TWF R-240 CW R-080 climb on course. All others climb runway heading 6000 then climbing turn direct TWF VORTAC. Climb in holding pattern (NW, right turns, 113° inbound) to MCA or MEA as appropriate for direction of flight.

VANCOUVER, WA

PEARSON FIELD (VUO)

AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ min. climb of 358' per NM to 600, or 500-3 w/ min. climb of 201' per NM to 600, or 900-2½ for climb in visual conditions. **Rwy 26**, 600-3 or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 079° to 500 then climbing left turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence... **Rwy 26**, climb heading 259° to 700 then climbing right turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence...

...continue climb in BTG VORTAC holding pattern (hold northwest, right turn, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, tree 1.4 NM from departure end of runway, 1283' left of centerline, 100' AGL/395' MSL. Tree 1.7 NM from departure end of runway, 701' left of centerline, 100' AGL/401' MSL. Tree 2 NM from departure end of runway, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from departure end of runway, 648' left of centerline, 100' AGL/399' MSL. **Rwy 26**, bridge 2704' from departure end of runway, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from departure end of runway, 2563' right of centerline, 237' AGL/267' MSL. Transmission line tower 2.5 NM from departure end of runway, 2036' right of centerline, 516' AGL/534' MSL.

WALLA WALLA, WA

WALLA WALLA RGNL

DEPARTURE PROCEDURE: **Rwys 2,7,20,25,34**, turn left. **Rwy 16**, turn right. **All aircraft** climb to 2500 via ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight.

NOTE: **Rwy 16**, antenna 365' from departure end of runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. **Rwy 20**, light 666' from departure end of runway, 640' left of centerline, 1170' MSL. **Rwy 34**, terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

WEISER, ID

WEISER MUNI (S87)

ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 310' per NM to 3900 or 2400-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 121° to 3900 before proceeding on course. **Rwy 30**, climb heading 301° to 4000 before proceeding on course ...for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: **Rwy 12**, tree 248' from departure end of runway, 443' right of centerline, 100' AGL/2184' MSL. **Rwy 30**, tree 1907' from departure end of runway, 769' right of centerline, 100' AGL/2174' MSL.

WENATCHEE, WA

PANGBORN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 12**, 1500-2 or std. with a min. climb of 510' per NM to 2900. **Rwys 25,30**, CAT A,B 1600-2 or std. with a min. climb of 360' per NM to 3100. CAT C,D 5500-3 or std. with a min. climb of 570' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading. **Rwys 25,30**, climbing left turn. **All aircraft** climb via EAT R-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CW R-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E, right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CW R-200 7400; R-201 CW R-009, 8200.

WEST YELLOWSTONE, MT

YELLOWSTONE

TAKE-OFF MINIMUMS: **Rwy 19**, 2200-2 or std. with a min. climb of 245' per NM to 8900. FAR 135 AUTH: **Rwy 1**, ½ mile.

DEPARTURE PROCEDURE: **Rwy 1**, turn right. **All aircraft** climb direct TARGY LOM. Aircraft departing TARGY LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARGY LOM turn left and continue climbing direct TARGY LOM to cross TARGY LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

WHEATLAND, WY

PHIFER AIRFIELD

DEPARTURE PROCEDURE: **Rwy 8**, climbing left turn to 9000 via heading 030° to intercept IIP VOR/DME R-140 to JEEZY Int, thence... **Rwy 26**, climbing right turn to 9000 via heading 360° and GYZ NDB course 051° to ZEEZY INT, thence...

...continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: **Rwy 8**, multiple trees 512' from departure end of runway, 584' left of centerline, 100' AGL/4859' MSL. **Rwy 26**, multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from departure end of runway, on centerline, to 488' left of centerline, 100' AGL/4899' MSL. Multiple trees, buildings, poles/lights, roads w/ vehicles beginning 2' from departure end of runway, on centerline to 499' right of centerline, 100' AGL/4859' MSL.

WHIDBEY ISLAND NAS (AULT FIELD) (NUW)

OAK HARBOR, WA. 07186

Diverse departures not authorized.

MILITARY DEPARTURE PROCEDURE: **Rwy 7:**

Minimum climb of 430'/NM until 600. Climbing left turn to 2000, intercept NUW R-067, expect radar vectors to join assigned route. **Rwy 14:** Climbing left turn to 2000, intercept NUW R-128, expect radar vectors to join assigned route. **Rwy 25:** Climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32:** Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS:** If vectors are not received by 10 DME of NUW TACAN, climb to 3000, intercept the NUW 11 DME ARC to join assigned route. CIVIL DEPARTURE PROCEDURE: **Rwy 7:**

Minimum climb of 270'/NM until 700. Climbing left turn to 2000 via heading 067°, expect radar vectors to join assigned route. **Rwy 14:** Climbing left turn to 2000, via heading 128°, expect radar vectors to join assigned route. **Rwy 25:** Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32:** Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL**

RWYS: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route. TAKEOFF OBSTACLES: **Rwy 7:** Terrain, 7813' from DER, 2469' left of centerline, 276' MSL. Trees, 4274' from DER, 5472' left of centerline, 472' MSL. Trees, 5239' from DER, 6257' left of centerline, 495' MSL. Trees, 8561' from DER, 3685' left of centerline, 426' MSL. Trees, 12,561' from DER, 4814' right of centerline, 462' MSL. Terrain, 11,843' from DER, 7129' left of centerline, 502' MSL. Trees, 15,361' from DER, 4015' right of centerline, 521' MSL.

WORLAND, WY

WORLAND MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28,** NA.

Rwy 16, 300-2 or std. with a min. climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: **All aircraft** climb to 5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CW R-349 climb on course. All others continue climb in RLY VOR/DME holding pattern (N, right turns, 159° inbound) to cross RLY VOR/DME at or above 7000.

YAKIMA, WA

YAKIMA AIR TERMINAL/MCALLISTER FIELD

TAKE-OFF MINIMUMS: **Rwy 4,** NA. **Rwy 9,** 800-4 or std. with a min. climb of 300' per NM to 5000. **Rwys 22, 27,** 2500-3 or std. with a min. climb of 300' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 4,** NA. **Rwys 9, 22, 27,** Use ZILLA DEPARTURE PROCEDURE.

VOR/DME CPN 111.6 Chan 53	APP CRS 307°	Rwy Idg TDZE Apt Elev 5030
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VOR/DME or GPS-A

ANACONDA/ BOWMAN FIELD (3U3)

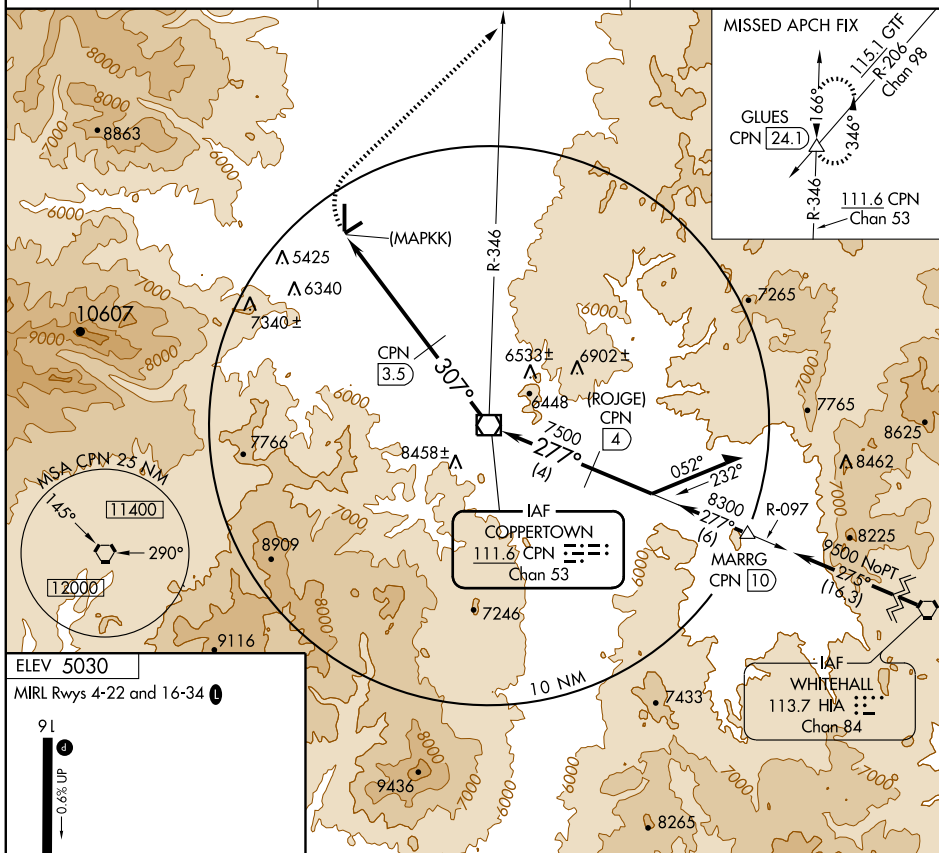
T	Use Butte (BTM) altimeter setting; when not received,
A NA	procedure NA.

MISSED APPROACH: Climbing right turn to 9200 via heading 030° to intercept CPN R-346 to GLUES and hold.

AWOS-A
122.8 L

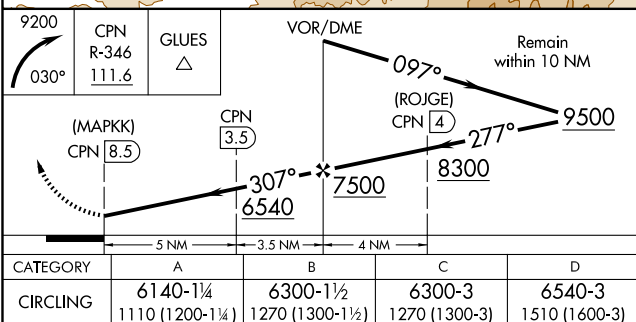
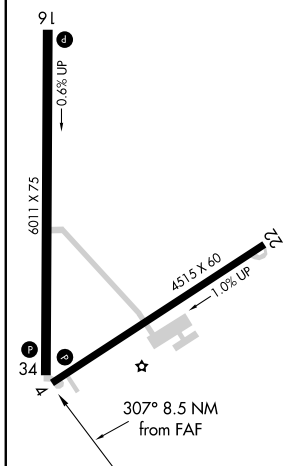
SALT LAKE CENTER
132.4 338.3

UNICOM
122.8 (CTAF) **L**



ELEV 5030

MIRL Rwy 4-22 and 16-34



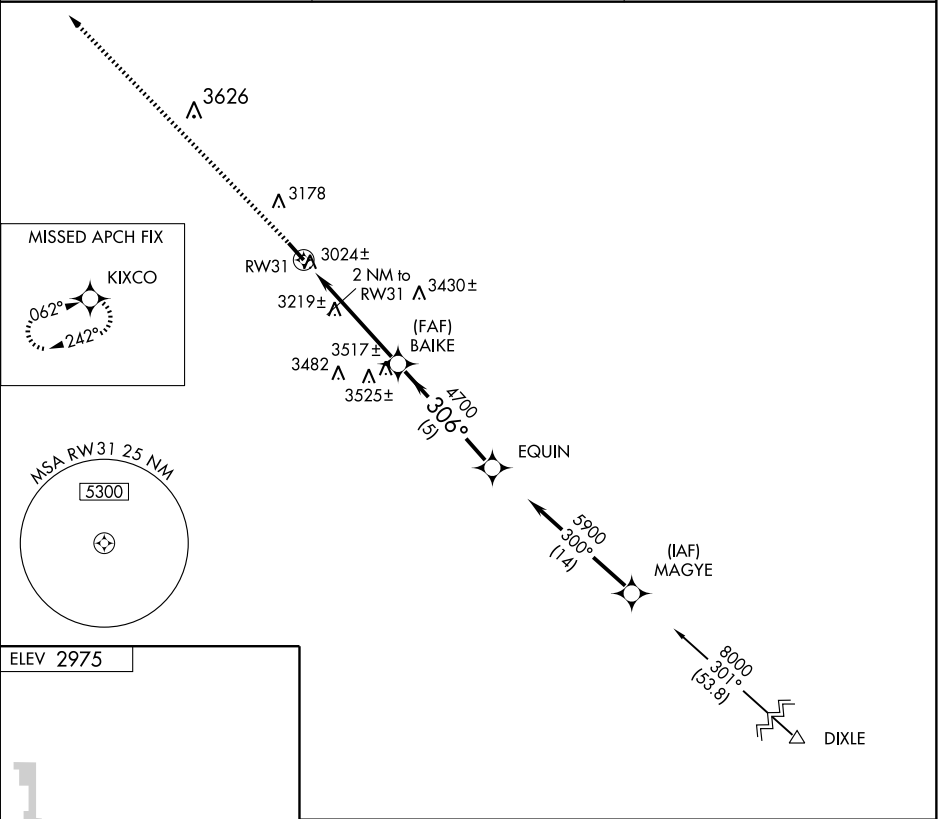
GPS RWY 31
BAKER MUNI (BHK)

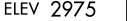
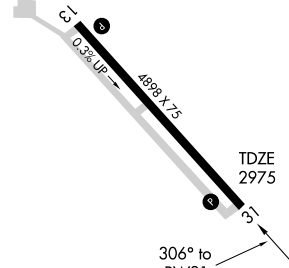
APP CRS	Rwy Idg	4898
306°	TDZE	2975
	Apt Elev	2975



NA


MISSED APPROACH: Climb to 6000 direct KIXCO WP and hold.


ASOS 135.475	SALT LAKE CENTER 126.85 305.2	CTAF 122.9
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↑





2 NM to RW31

BAIKE

EQUIN

3640

4700

5900

≤ 3.20°

TCH 31

2 NM

3 NM

5 NM

Procedure Turn NA

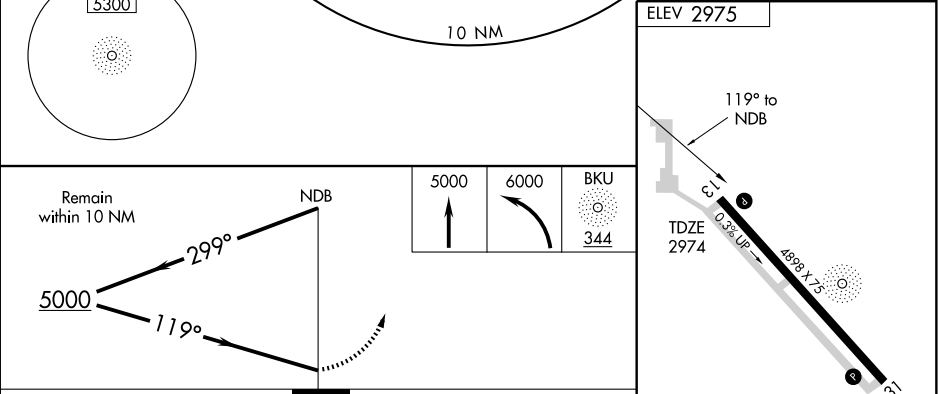
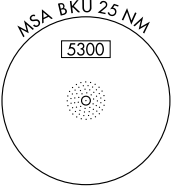
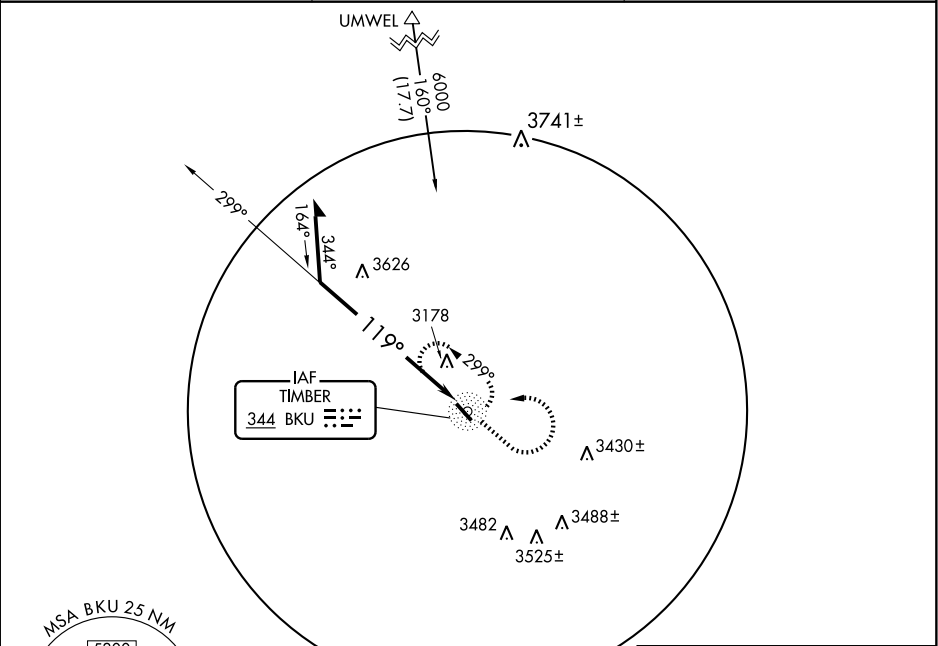
CATEGORY	A	B	C	D
S-31	3500-1	525 (600-1)	3500-1½ 525 (600-1½)	3500-1¾ 525 (600-1¾)
CIRCLING	3560-1	585 (600-1)	3560-1½ 585 (600-1½)	3560-2 585 (600-2)

NDB BKU 344	APP CRS 119°	Rwy Idg TDZE Apt Elev	4898 2974 2975
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NDB RWY 13
BAKER MUNI (BHK)

 	MISSED APPROACH: Climb to 5000, then climbing left turn to 6000 direct BKU NDB and hold.
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ASOS 135.475	SALT LAKE CENTER 126.85 305.2	CTAF 122.9 
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CATEGORY	A	B	C	D
S-13	3980-1 ¼ 1006 (1100-1 ¼)	3980-1 ½ 1006 (1100-1 ½)	3980-3	1006 (1100-3)
CIRCLING	3980-1 ¼ 1005 (1100-1 ¼)	3980-1 ½ 1005 (1100-1 ½)	3980-3	1005 (1100-3)

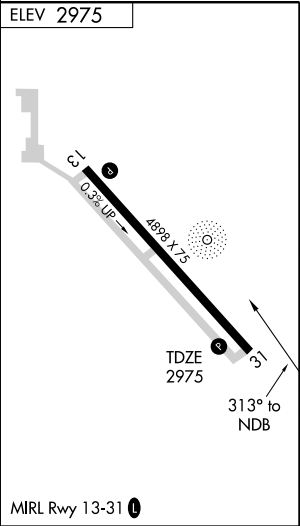
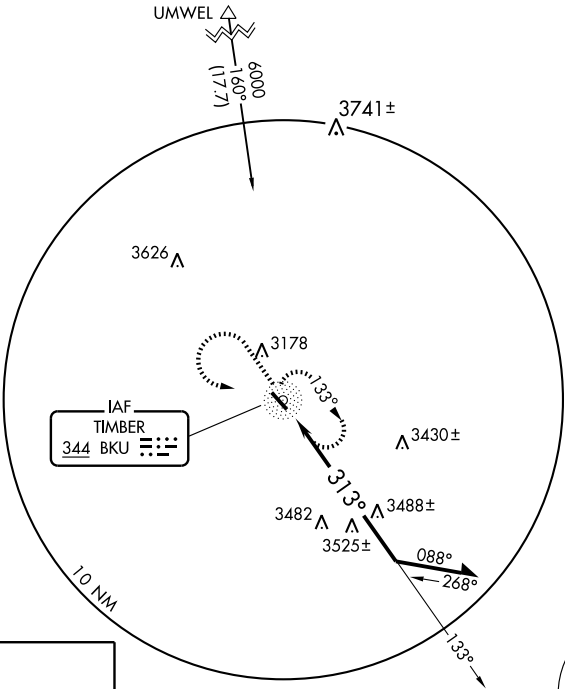
MIRL Rwy 13-31 

NDB RWY 31
BAKER MUNI (BHK)

NDB BKU 344	APP CRS 313°	Rwy Idg TDZE Apt Elev	4898 2975 2975
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MISSED APPROACH: Climb to 5000, then climbing left turn to 6000 direct BKU NDB and hold.

ASOS 135.475	SALT LAKE CENTER 126.85 305.2	CTAF 122.9
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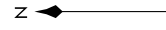
5000	6000	BKU 344	NDB		Remain within 10 NM
↑	↶		133°	5000	
CATEGORY	A	B	C	D	
S-31	3880-1 ¼	905 (1000-1 ¼)	3880-2 ¾ 905 (1000-2 ¾)	3880-3 905 (1000-3)	
CIRCLING	3880-1 ¼	905 (1000-1 ¼)	3880-2 ¾ 905 (1000-2 ¾)	3880-3 905 (1000-3)	

BILLINGS TWO DEPARTURE

SL-48 (FAA)

BILLINGS LOGAN INTL (BIL)
BILLINGS, MONTANA

ATS 126.3
CLNC DEL
121.9
GND CON
121.9
BILLINGS DEP CON
120.5



NOTE: Takeoff on Runways 7, 10R, and 10L requires a minimum climb of 260 feet per NM to 4500 feet.

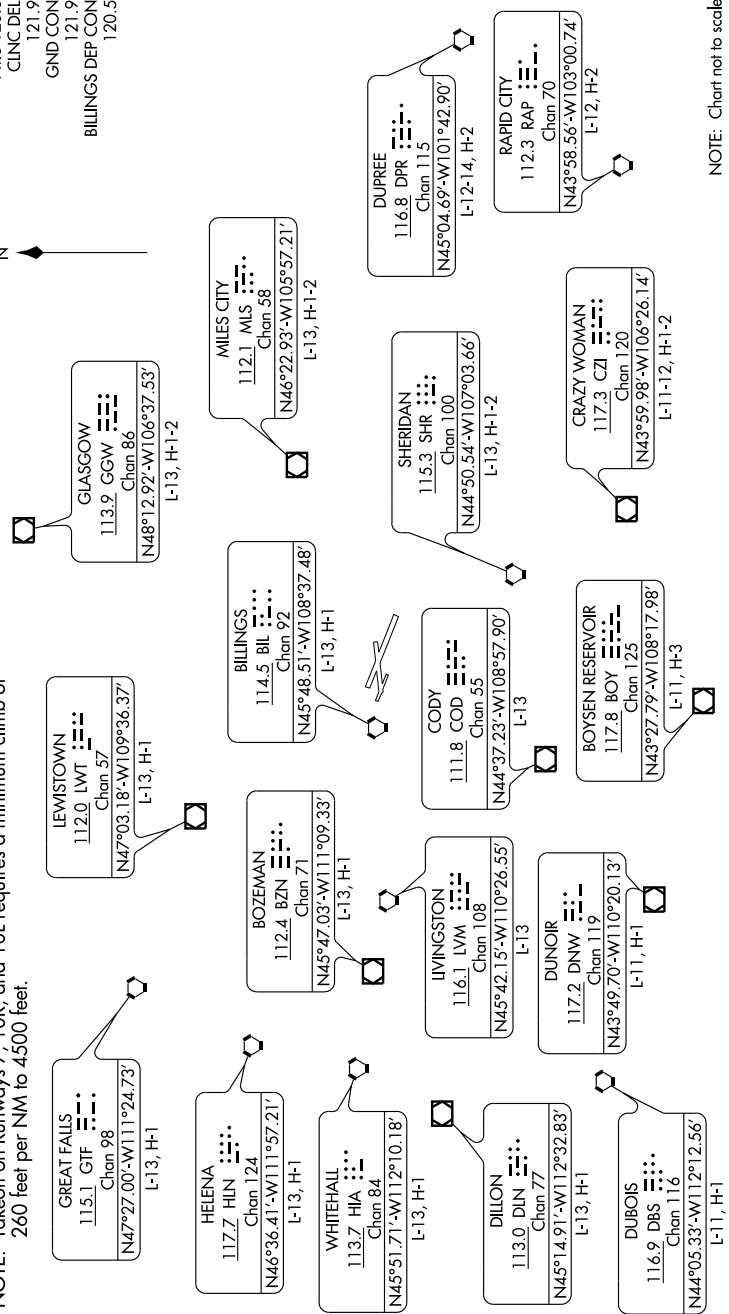
NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

ALL RUNWAYS: Fly assigned heading for vectors to assigned fix/route. Maintain 12,000 feet or assigned lower altitude. Expect clearance to filed altitude/flight level within 40 NM of BIL VORTAC.

LOST COMMUNICATIONS: If no transmissions are received for 1 minute after departure, fly last assigned heading until reaching 7000 feet. Proceed direct BIL VORTAC, then via last routing cleared and climb to filed altitude.

NW-1, 22 OCT 2009 to 19 NOV 2009



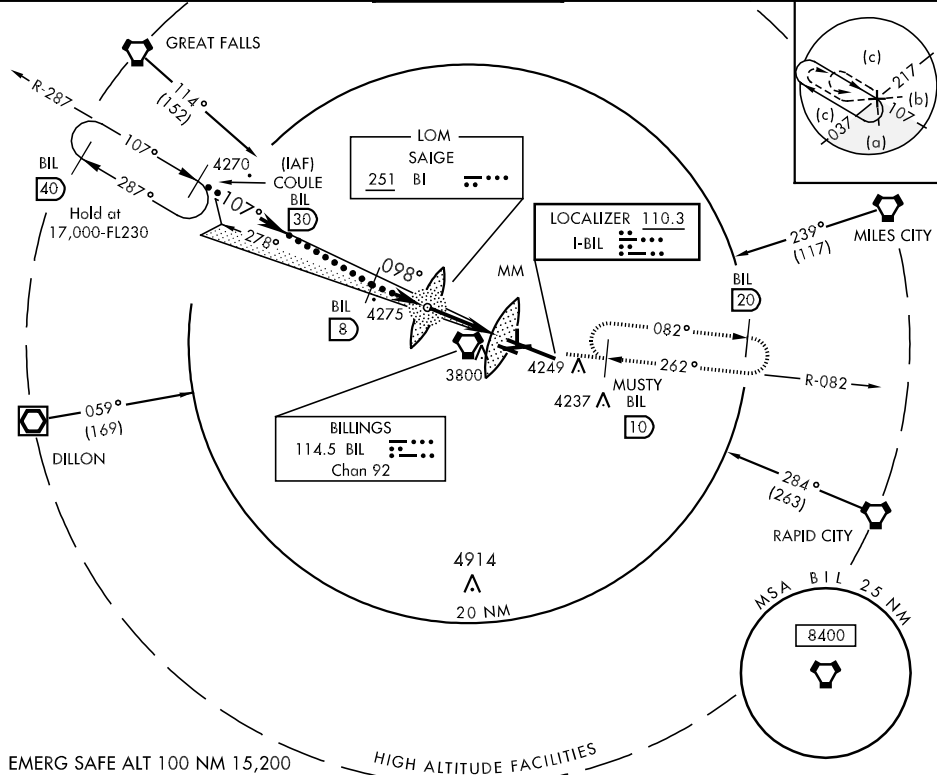
LOCALIZER I-BIL
110.3APCH CRS
098°Rwy Idg **10,518**
TDZE **3584**
Arpt Elev **3652**

JAL-48 [USAF]

BILLINGS LOGAN INTL (KBIL)

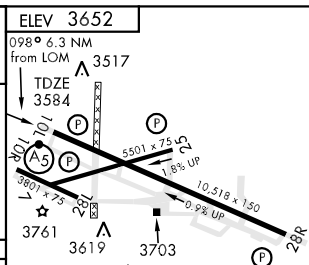
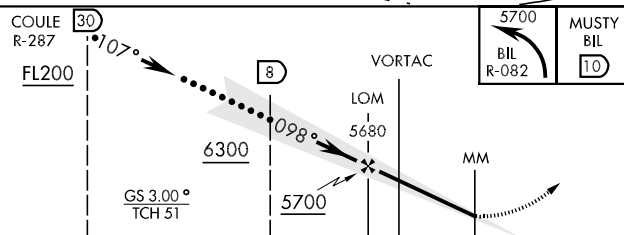


MISSED APPROACH: Climb to 5700 via BIL R-082 to MUSTY/10 DME and hold.

ATIS
126.3BILLINGS APP CON
120.5 284.6BILLINGS TOWER
127.2 257.8GND CON
121.9CLNC DEL
121.9

EMERG SAFE ALT 100 NM 15,200

HIGH ALTITUDE FACILITIES



CATEGORY	C	D	E
S-ILS 10L	3784/24	200 (200-½)	
S-LOC 10L	4100/50 516 (500-1)	4100/60 516 (500-1¼)	
CIRCLING	4180-1½ 528 (600-1½)	4220-2 568 (600-2)	4580-3 928 (1000-3)

REIL Rwy 25 and 28R	
HIRL Rwy 10L-28R	
MIRL Rwy 7-25 and 10R-28L	
FAF to MAP 6.3 NM	
Knots	120 140 160 180 200
Min:Sec	3:09 2:42 2:22 2:06 1:53

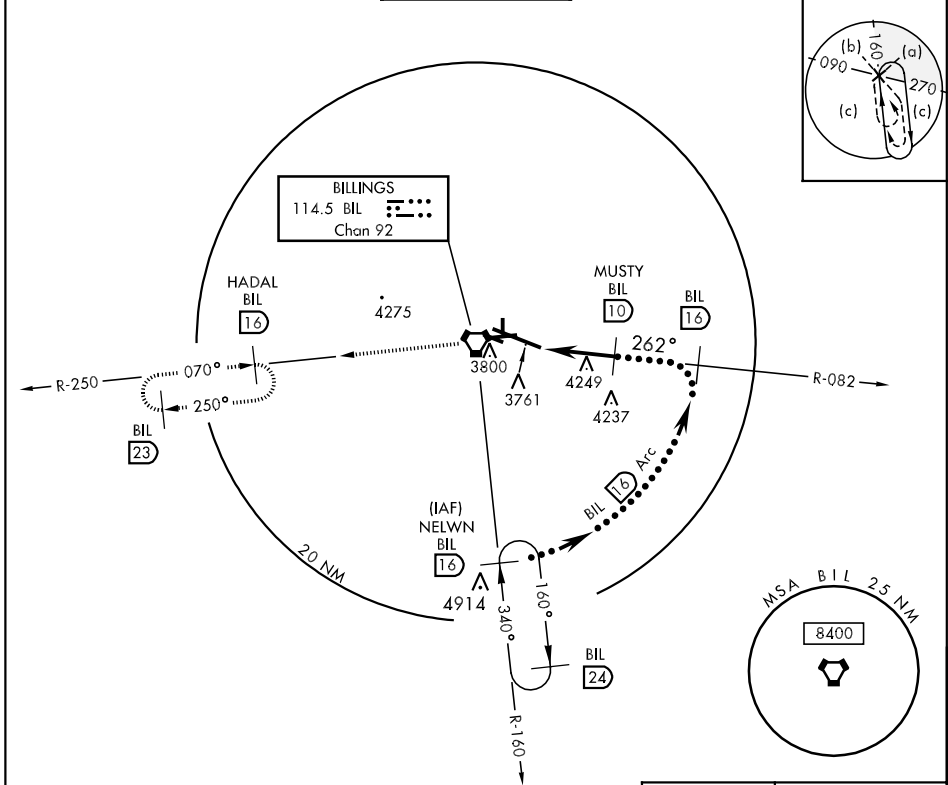
BILLINGS 114.5 Chan 92	APCH CRS 262°	Rwy Idg 10,518 TDZE 3517 Arpt Elev 3652
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JAL-48 [USAF]

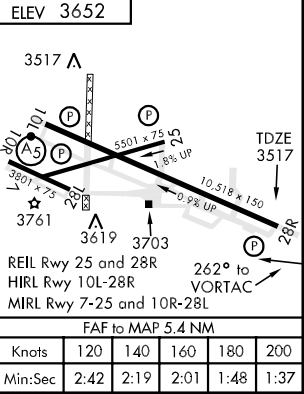
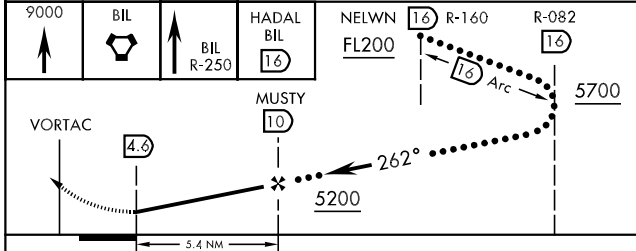
BILLINGS LOGAN INTL (KBIL)

▼ MISSED APPROACH: Climb to 9000 direct BIL VORTAC then via R-250 to HADAL/16 DME and hold.

ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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EMERG SAFE ALT 100 NM 15,200



CATEGORY	C	D	E
S-28R	3940-1 1/4 423 (300-1 1/4)	3940-1 1/2 423 (300-1 1/2)	3940-1 1/2 423 (300-1 1/2)
CIRCLING	4180-1 1/2 528 (600-1 1/2)	4220-2 568 (600-2)	4580-3 928 (1000-3)

NW-1, 22 OCT 2009 to 19 NOV 2009

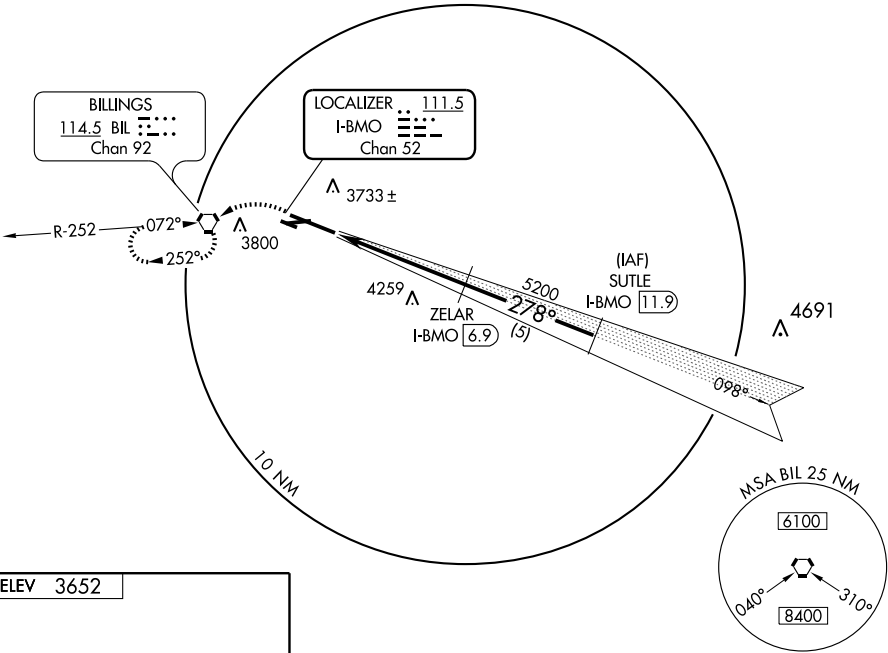
LOC/DME I-BMO 111.5 Chan 52	APP CRS 278°	Rwy Idg 10518 TDZE 3517 Apt Elev 3652
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ILS or LOC/DME RWY 28R
BILLINGS LOGAN INTL (BIL)

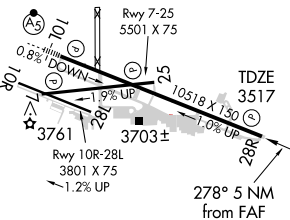
MISSED APPROACH: Climb to 4300 then climbing left turn to 6000 direct BIL VORTAC and hold.	
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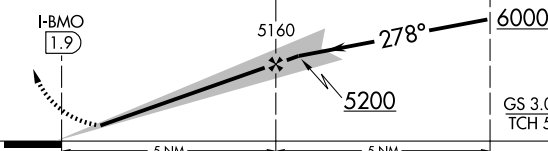
ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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RADAR REQUIRED



ELEV 3652



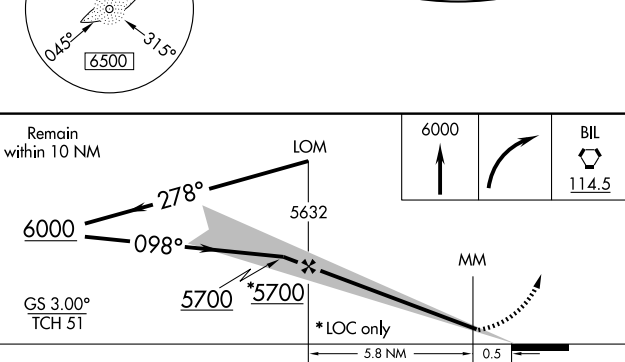
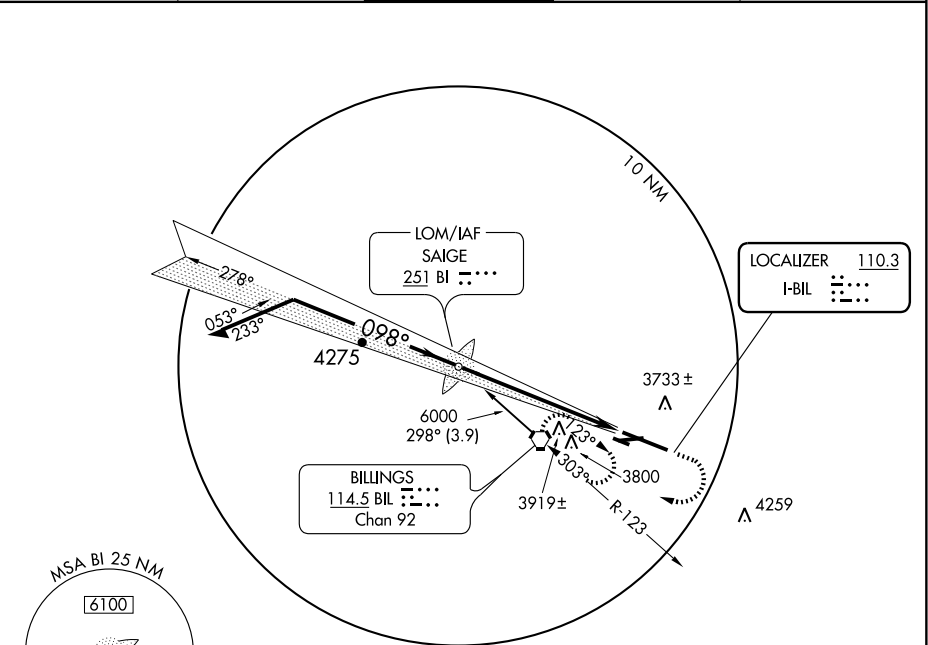
<div>4300</div> <div>↑</div>		<div>6000</div> <div></div>	<div>BIL</div> <div></div> <div><u>114.5</u></div>	<div>VGSI and ILS glidepath not coincident.</div> <div>Procedure Turn NA</div>		<div>SUTLE</div> <div>I-BMO</div> <div><div>11.9</div></div>
<div></div>						
CATEGORY	A		B		C	D
S-ILS 28R	3767-1 250 (200-1)					
S-LOC 28R	4000-1 483 (400-1)		4000-1¼ 483 (400-1¼)		4000-1½ 483 (400-1½)	
CIRCLING	4160-1 508 (600-1)	4180-1 528 (600-1)	4180-1½ 528 (600-1½)		4220-2 568 (600-2)	

REIL Rwy 25 and 28R
HIRL Rwy 10L-28R
MIRL Rwy 7-25 and 10R-28L

LOC	I-BIL	APP CRS	Rwy Idg
110.3		098°	10518
			TDZE 3584
			Apt Elev 3652

ILS or LOC RWY 10L
BILLINGS LOGAN INTL (BIL)

# RVR 1800 authorized with the use of FD or AP or HUD to DA.		MALSR 	MISSED APPROACH: Climb to 6000, then right turn direct BIL VORTAC and hold.	
ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9



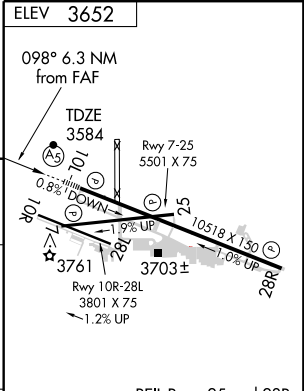
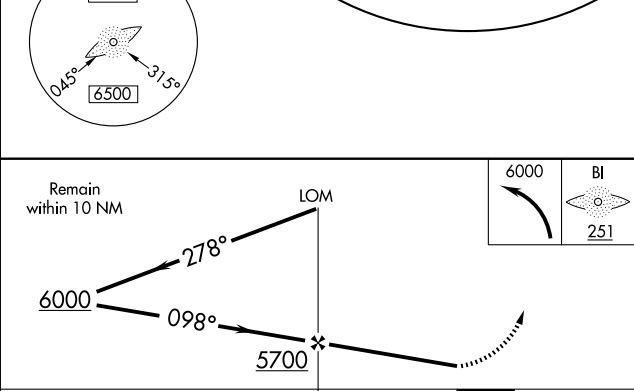
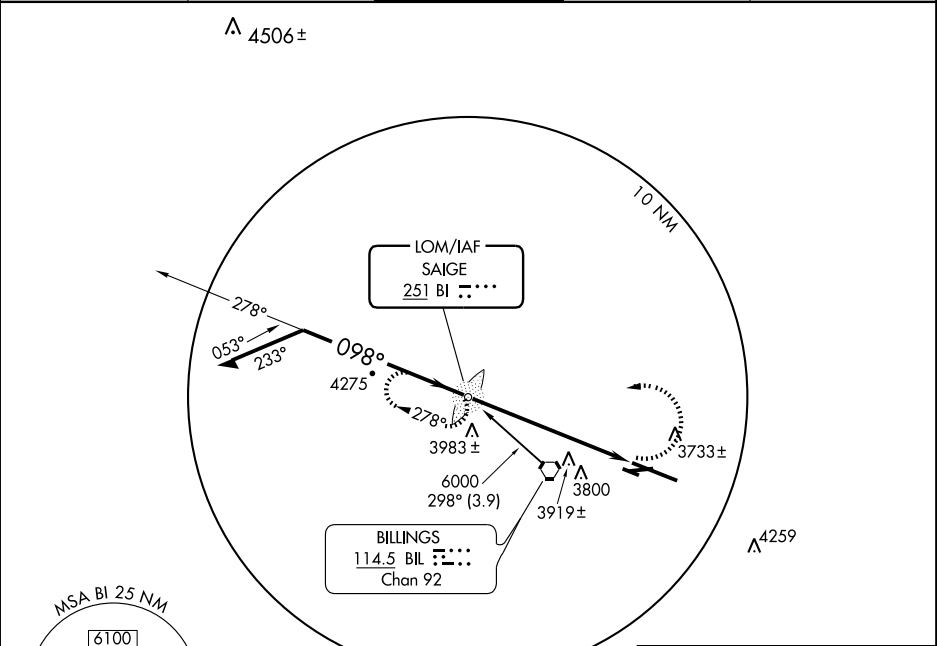
ELEV 3652	098° 6.3 NM from FAF
TDZE 3584	Rwy 7-25 5501 X 75
Rwy 10R-28L 3801 X 75	10518 X 130
3761	3703±
1.9% UP	1.0% UP
0.8% DOWN	2.2% UP
REIL Rwy 25 and 28R	HIRL Rwy 10L-28R
MIRL Rwy 7-25 and 10R-28L	
FAF to MAP 6.3 NM	
Knots	60 90 120 150 180
Min:Sec	6:18 4:12 3:09 2:31 2:06

LOM BI 251	APP CRS 098°	Rwy Idg TDZE Apt Elev	10518 3584 3652
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NDB RWY 10L
BILLINGS LOGAN INTL (BIL)

	MALSR 	MISSED APPROACH: Climbing left turn to 6000 direct Saige LOM and hold.
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ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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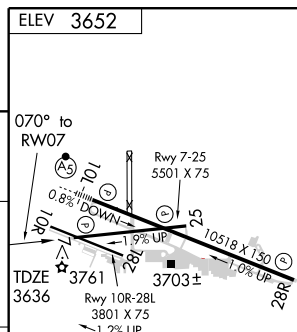
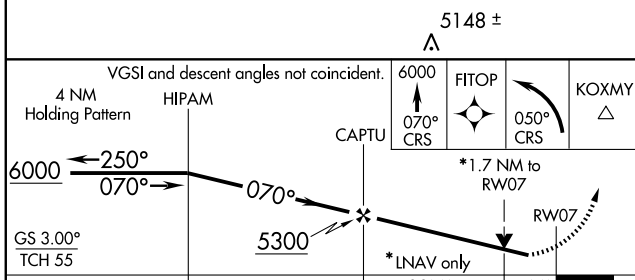
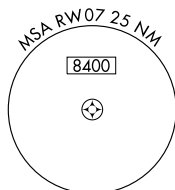
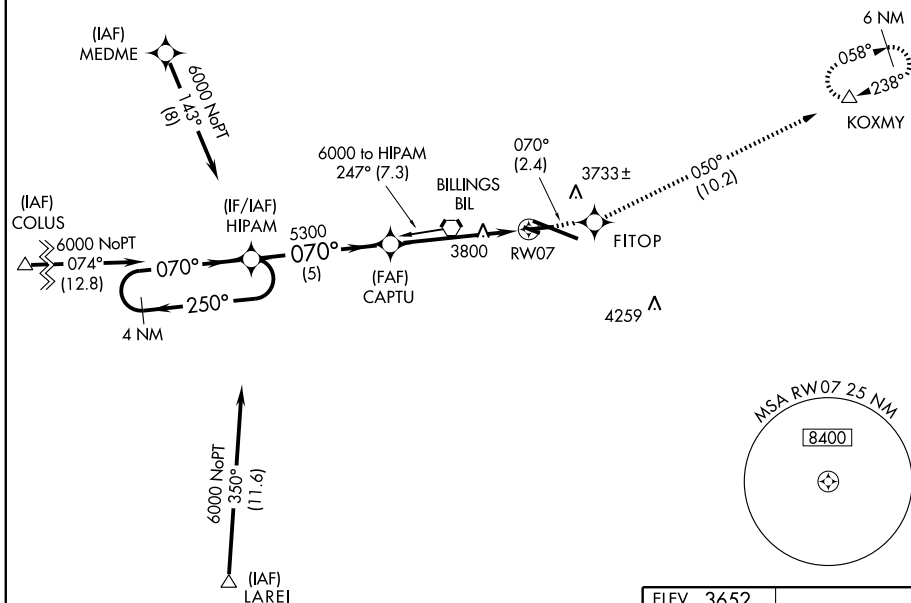


CATEGORY	A	B	C	D
S-10L	4300/40 716 (700-¾)		4300-1½ 716 (700-1½)	4300-2 716 (700-2)
CIRCLING	4300-1 648 (700-1)		4300-2 648 (700-2)	4300-2¼ 648 (700-2¼)

REIL Rwy 25 and 28R HIRL Rwy 10L-28R MIRL Rwy 7-25 and 10R-28L					
FAF to MAP 6.3 NM					
Knots	60	90	120	150	180
Min:Sec	6:18	4:12	3:09	2:31	2:06

MISSED APPROACH: Climb to 6000 via 070° course to FITOP, then left turn via 050° course to KOXMY and hold.

ATIS	BILLINGS APP CON	BILLINGS TOWER	GND CON	CLNC DEL
126.3	120.5 284.6	127.2 257.8	121.9	121.9



CATEGORY	A	B	C	D
GLS PA DA	NA			
LNAV/ VNAV DA	4209-2 573 (600-2)			
LNAV MDA	4220-1 584 (600-1)	4220-1½ 584 (600-1½)	4220-1¾ 584 (600-1¾)	
CIRCLING	4220-1 568 (600-1)	4220-1½ 568 (600-1½)	4220-2 568 (600-2)	

REIL Rwy 25 and 28R
HIRL Rwy 10L-28R
MIRL Rwy 7-25 and 10R-28L

WAAS CH 50122 W10A	APP CRS 098°	Rwy Idg 10518 TDZE 3584 Apt Elev 3652
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RNAV (GPS) RWY 10L

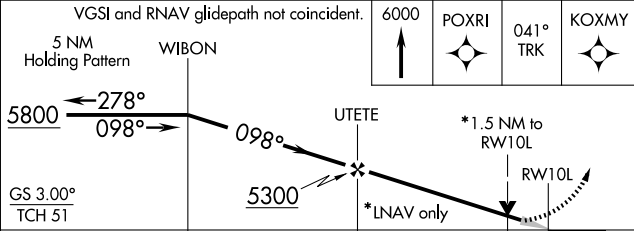
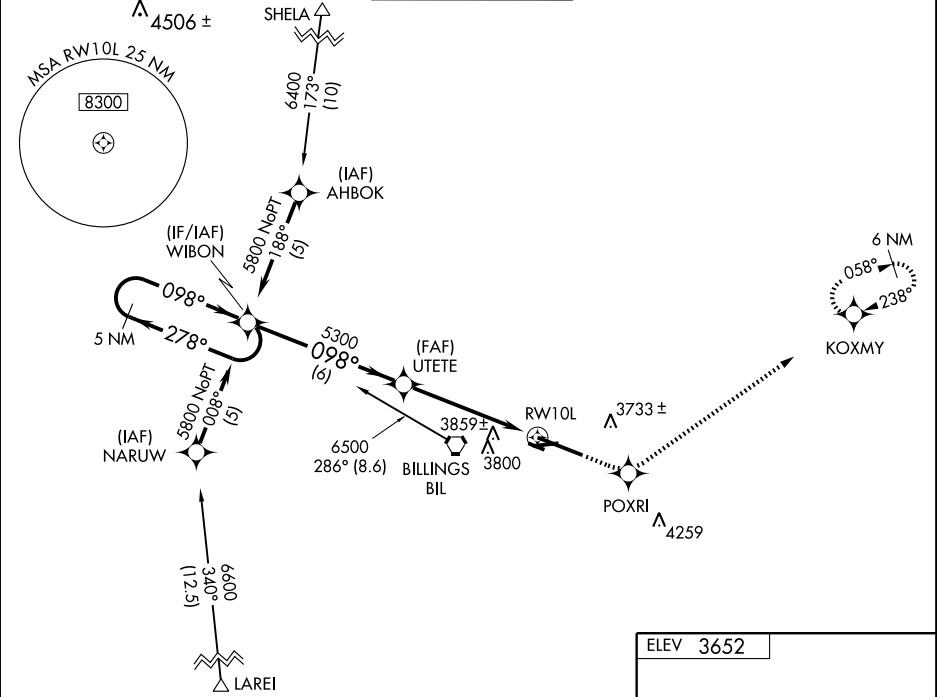
BILLINGS LOGAN INTL (BIL)

Baro-VNAV NA below -22°C (-7°F).
DME/DME RNP- 0.3 NA.
Inoperative table does not apply to LNAV/VNAV.
For inoperative MALSR increase LPV visibility to RVR 6000 all Cats.

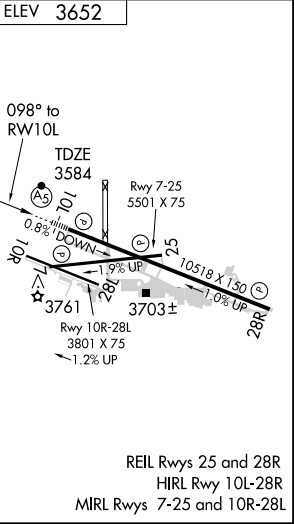


MISSED APPROACH: Climb to 6000 direct POXRI and via 041° track to KOXMY and hold.

ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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CATEGORY	A	B	C	D
LPV DA	3950/40 366 (300-¾)			
LNAV/VNAV DA	4200-2¼ 616 (600-2¼)			
LNAV MDA	4120/24 536 (500-½)	4120/50 536 (500-1)	4120/60 536 (500-1¼)	
CIRCLING	4200-2¼ 548 (600-2¼)			4220-2¼ 568 (600-2¼)

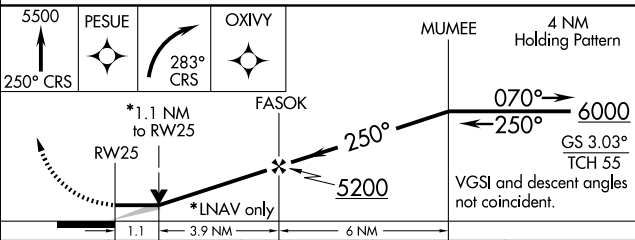
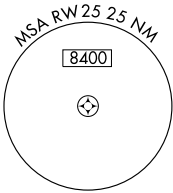
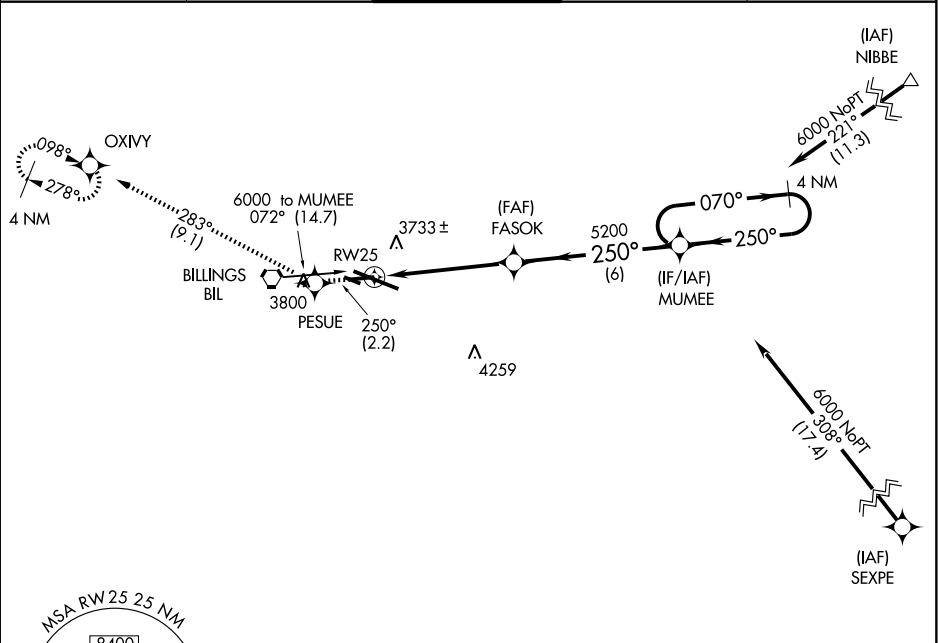


APP CRS 250°	Rwy Idg TDZE Apt Elev	5501 3586 3652
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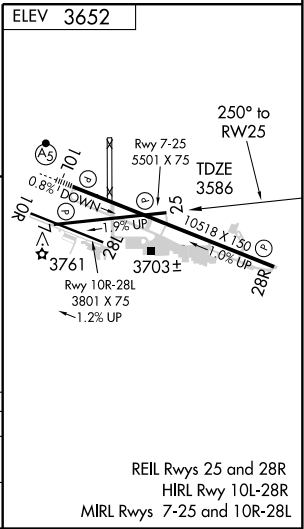
RNAV (GPS) RWY 25
BILLINGS LOGAN INTL (BIL)

DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 5500 via 250° course to PESUE WP then right turn via 283° course to OXIVY and hold.
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ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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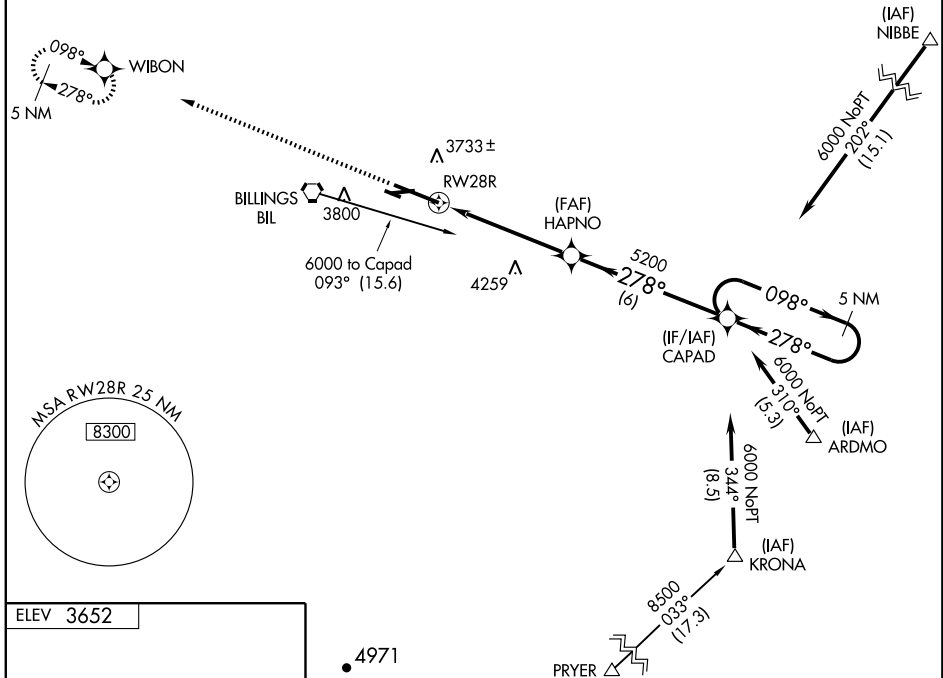


CATEGORY	A	B	C	D
LNNAV MDA	4020-1 434 (400-1)	4020-1½ 434 (400-1½)	4020-1½ 434 (400-1½)	4020-1½ 434 (400-1½)
CIRCLING	4160-1½ 508 (600-1½)	4180-1½ 528 (600-1½)	4180-1½ 528 (600-1½)	4220-2 568 (600-2)

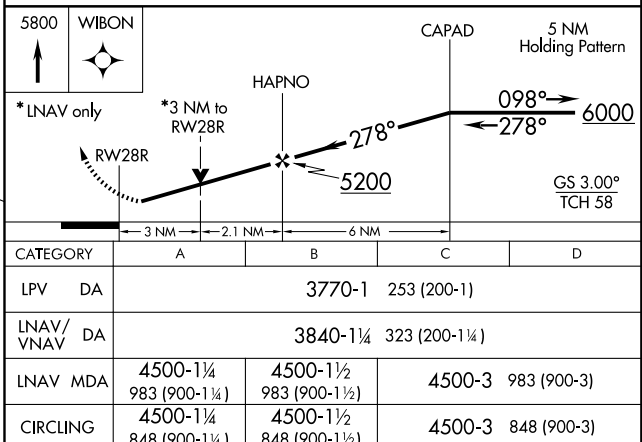
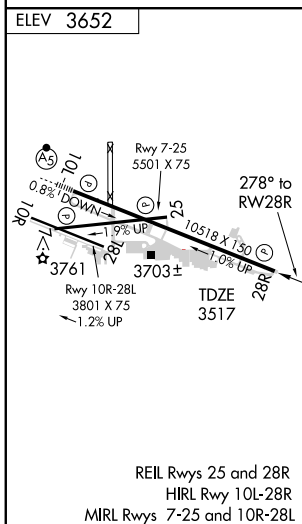


MISSED APPROACH: Climb to 5800 direct WIBON and hold.

CLNC DEL
121.9



NW-1. 22 OCT 2009 to 19 NOV 2009

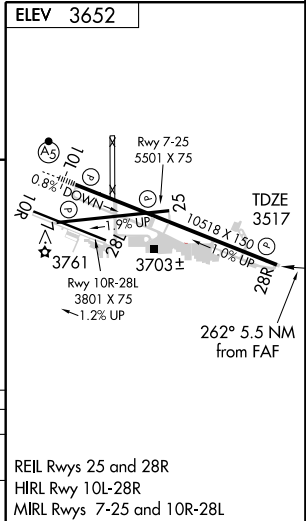
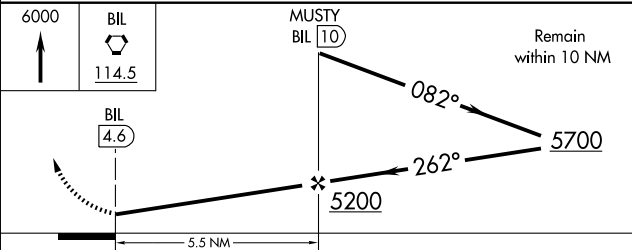
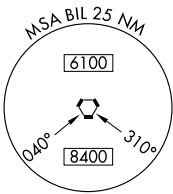
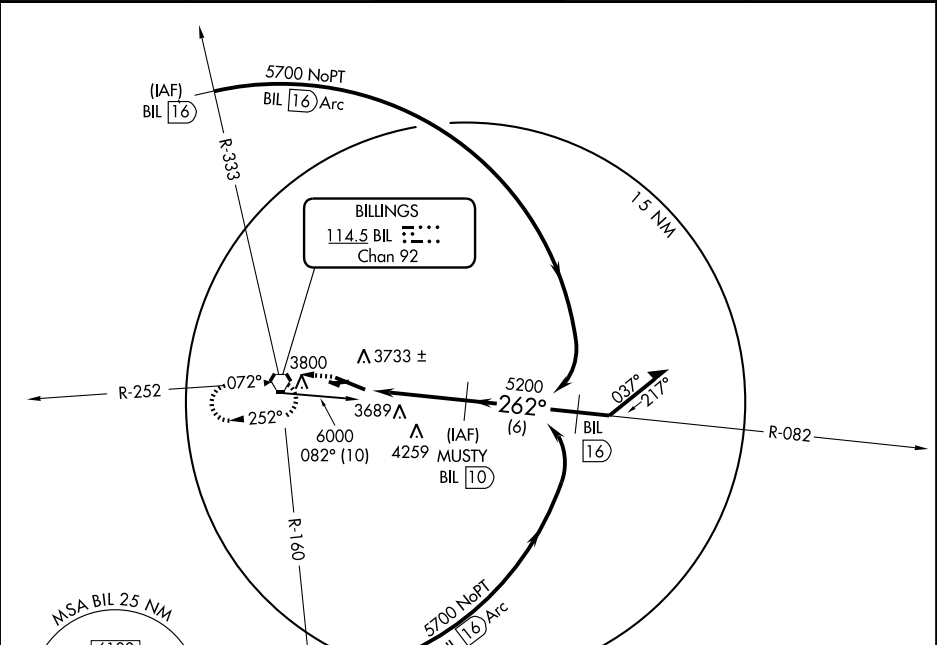


VORTAC BIL	APP CRS	Rwy Idg	10518
114.5	262°	TDZE	3517
Chan 92		Apt Elev	3652

VOR/DME RWY 28R
BILLINGS LOGAN INTL (BIL)

	MISSED APPROACH: Climb to 6000 direct BIL VORTAC and hold.
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ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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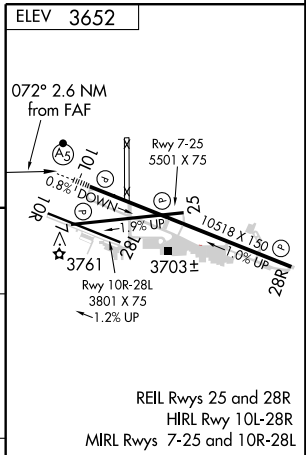
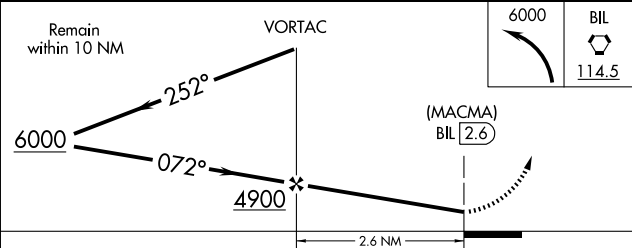
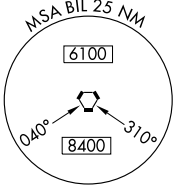
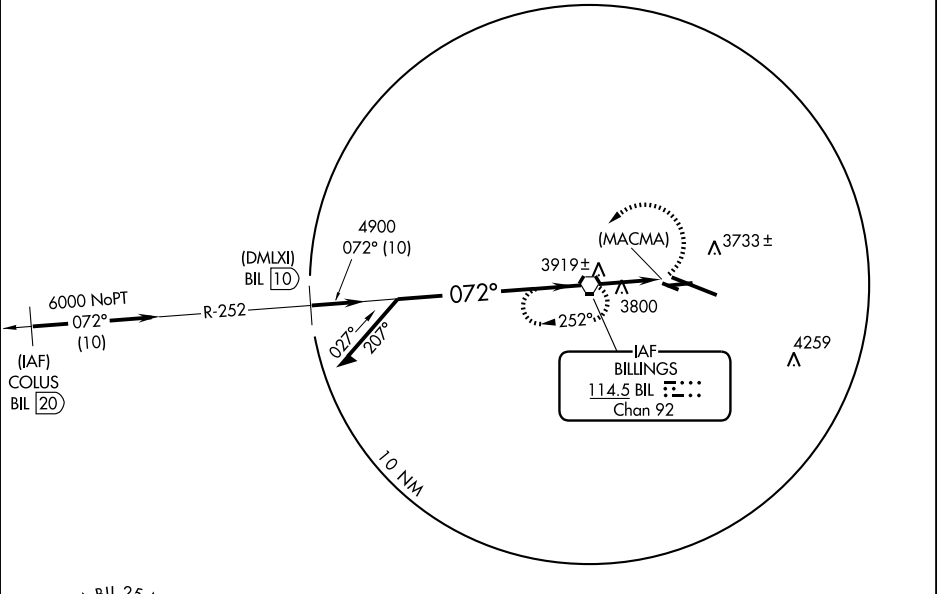
CATEGORY	A	B	C	D
S-28R	4040-1 523 (400-1)		4040-1½ 523 (400-1½)	4040-1¾ 523 (400-1¾)
CIRCLING	4160-1 508 (600-1)	4180-1 528 (600-1)	4180-1½ 528 (600-1½)	4220-2 568 (600-2)

REIL Rwy 25 and 28R
HIRL Rwy 10L-28R
MIRL Rwy 7-25 and 10R-28L

VORTAC BIL	APP CRS	Rwy Idg TDZE	N/A
114.5	072°		N/A
Chan 92		Apt Elev	3652

VOR or GPS-A
BILLINGS LOGAN INTL (BIL)

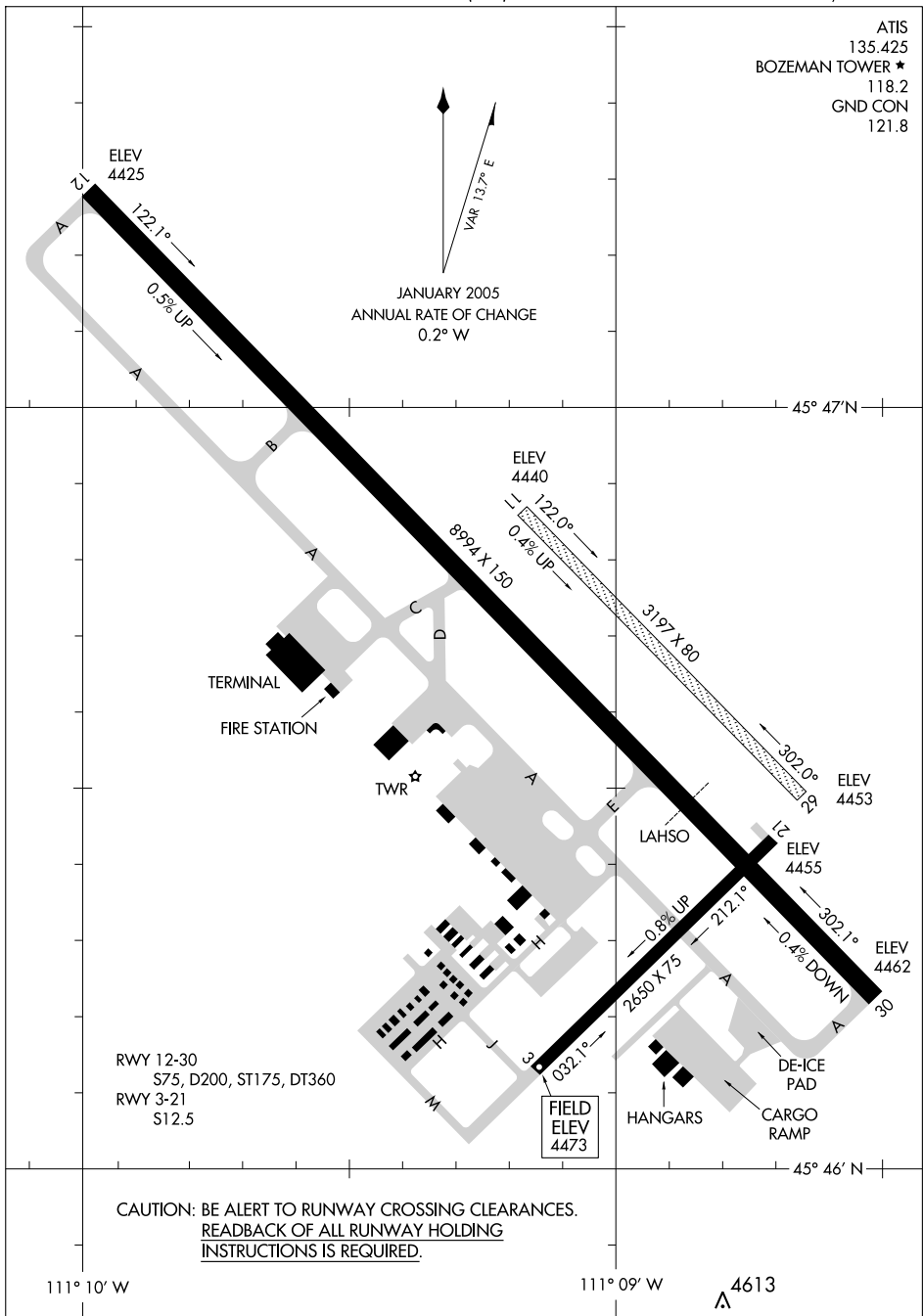
		MISSED APPROACH: Climbing left turn to 6000 direct BIL VORTAC and hold.		
ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9



CATEGORY	A	B	C	D	FAF to MAP 2.6 NM					
CIRCLING	4180-1 528 (600-1)		4180-1½ 528 (600-1½)	4220-2 568 (600-2)	Knots	60	90	120	150	180
					Min:Sec	2:36	1:44	1:18	1:02	0:52

AIRPORT DIAGRAM

AL-59 (FAA)

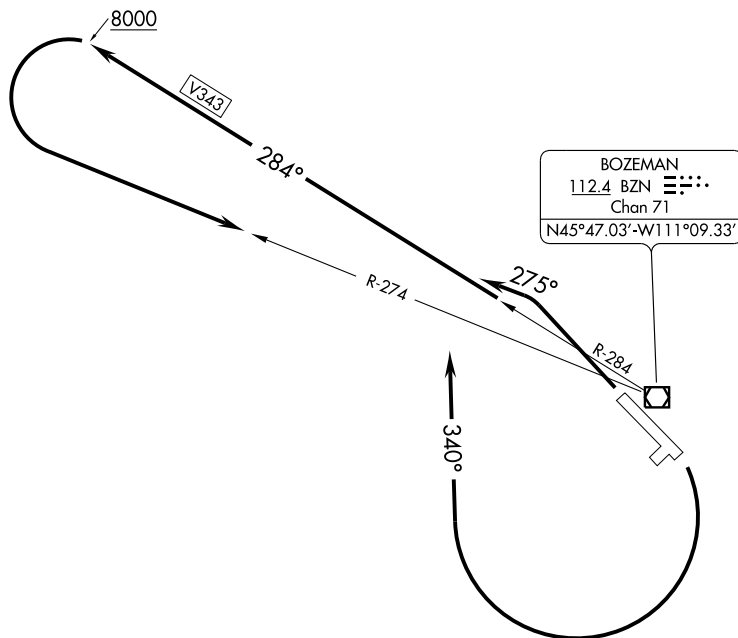
BOZEMAN/GALLATIN FIELD (BZN)
BOZEMAN, MONTANA

NW-1. 22 OCT 2009 to 19 NOV 2009

BOZEMAN ONE DEPARTURE (OBSTACLE)

BOZEMAN/GALLATIN FIELD (BZN)
BOZEMAN, MONTANA

ATIS 135.425
GND CON
121.8
BOZEMAN TOWER ★
118.2 (CTAF)
SALT LAKE CITY CENTER
132.4 338.3



TAKE-OFF MINIMUMS

Rwy 3, 21: NA - ATC.

Rwy 12, 30: Standard

TAKE-OFF OBSTACLE NOTES

Rwy 30: Pole 636' from DER, 622' left of centerline, 62' AGL/4452' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 12: Climbing right turn heading 340° to intercept BZN R-284 outbound to 8000. Aircraft departing westbound via V343 climb on course, all others continue climbing left turn to intercept BZN R-274 to BZN VOR/DME, cross BZN VOR/DME at or above MCA or MEA for route of flight.

TAKE-OFF RUNWAY 30: Climbing left turn heading 275° to intercept BZN R-284 outbound to 8000. Aircraft departing westbound via V343 climb on course, all others continue climbing left turn to intercept BZN R-274 to BZN VOR/DME, cross BZN VOR/DME at or above MCA or MEA for route of flight.

LOC I-BZN	APP CRS	Rwy Idg	8994
109.3	118°	TDZE	4439
		Apt Elev	4474

BOZEMAN/GALLATIN FIELD (BZN)

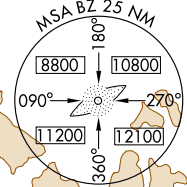
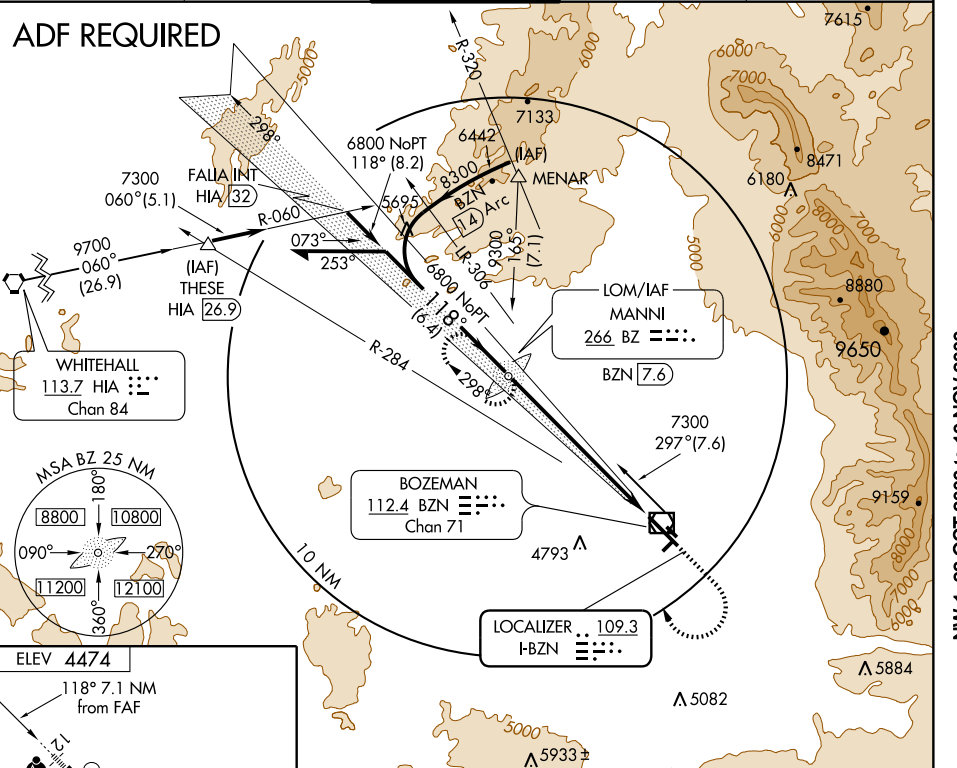
⚠

Increase S-LOC 12 Cat D. visibility ¼ mile for inoperative MALSR.

MALSR

MISSED APPROACH: Climb to 5000, then climbing right turn to 8000 direct BZ LOM and hold.

ATIS 135.425	SALT LAKE CENTER 132.4 338.3	BOZEMAN TOWER★ 118.2 (CTAF) 0	GND CON 121.8	UNICOM 122.95
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ELEV 4474

118° 7.1 NM from FAF

TDZE 4439

4609 TWR

4613

REIL Rwy 30
HIRL Rwy 12-30

FAF to MAP 7.1 NM

Knots	60	90	120	150	180
Min:Sec	7:06	4:44	3:33	2:50	2:22

Remain within 10 NM

7300 118° 6800

GS 3.00° TCH 53

LOM BZN 7.6 6779

5000 8000 BZ 266

BZN 0.5 7.1 NM

CATEGORY	A	B	C	D
S-ILS 12	4650-½ 211 (200-½)			
S-LOC 12	4760-½ 321 (300-½)			4760-¾ 321 (300-¾)
CIRCLING	4940-1 466 (500-1)		4940-1½ 466 (500-1½)	5040-2 566 (600-2)

NW-1. 22 OCT 2009 to 19 NOV 2009

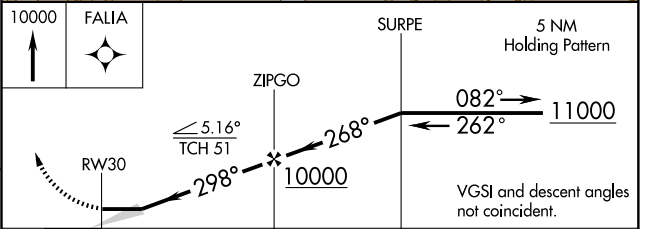
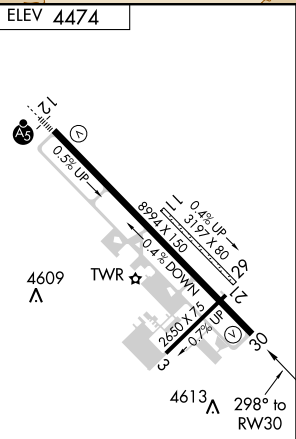
▼

▲ NA

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 10000 direct FALIA WP and hold.

ATIS 135.425	SALT LAKE CENTER 132.4 338.3	BOZEMAN TOWER★ 118.2 (CTAF) 0	GND CON 121.8	UNICOM 122.95
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CATEGORY	A	B	C	D
CIRCLING	6380-1¼ 1906 (2000-1¼)	6380-1½ 1906 (2000-1½)	6380-3 1906 (2000-3)	

NW-1. 22 OCT 2009 to 19 NOV 2009

VOR/DME BZN <u>112.4</u> Chan 71	APP CRS 109°	Rwy Idg 8994 TDZE 4439 Apt Elev 4474
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VOR/DME or GPS RWY 12

BOZEMAN/ GALLATIN FIELD (BZN)



MALSR



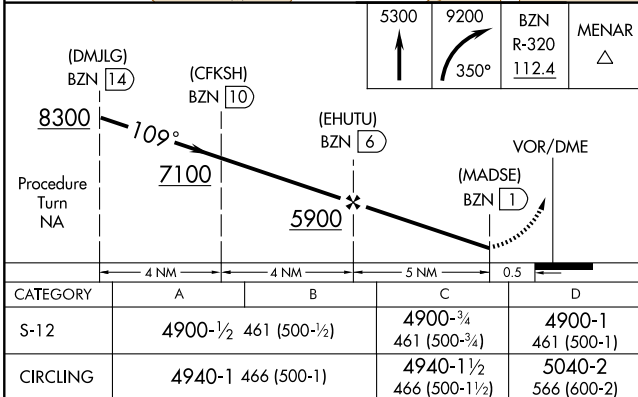
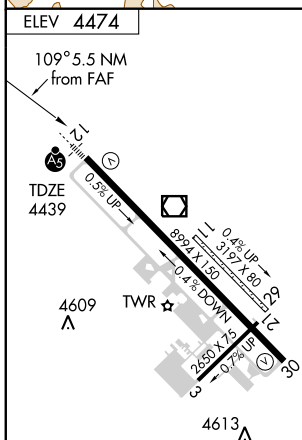
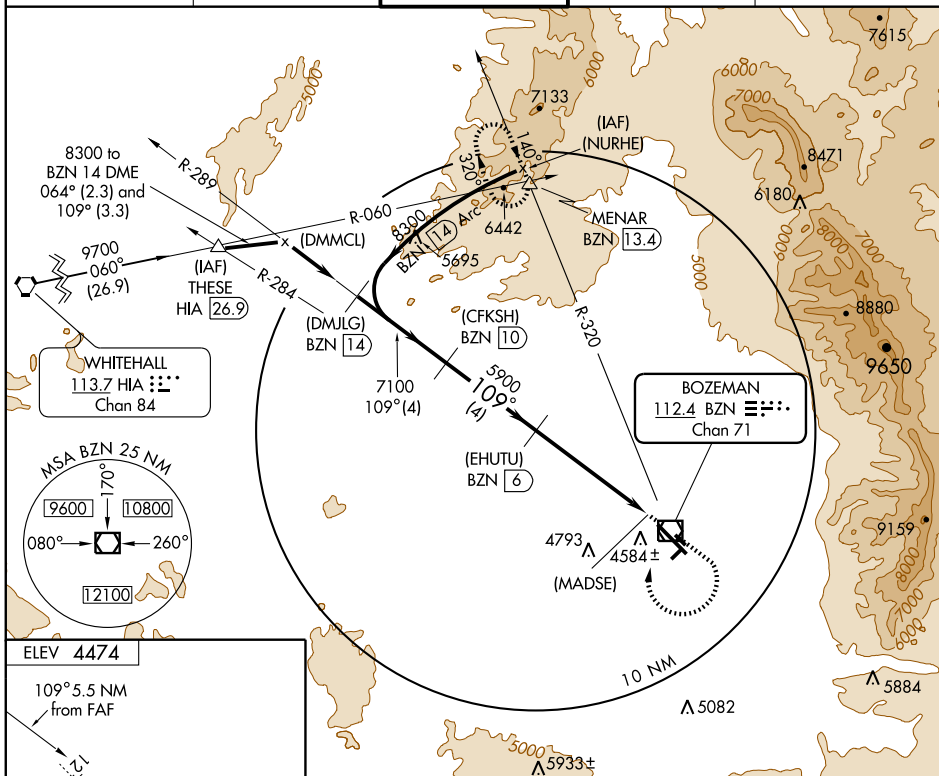
MISSED APPROACH: Climb to 5300, then a climbing right turn to 9200 via heading 350° to intercept BZN R-320, then via BZN R-320 to MENAR Int and hold.

ATIS
135.425

SALT LAKE CENTER
132.4 338.3

BOZEMAN TOWER★
118.2 (CTAF) L

GND CON
121.8

UNICOM
122.95

NW-1. 22 OCT 2009 to 19 NOV 2009

REIL Rwy 30 **L**
HIRL Rwy 12-30 **L**

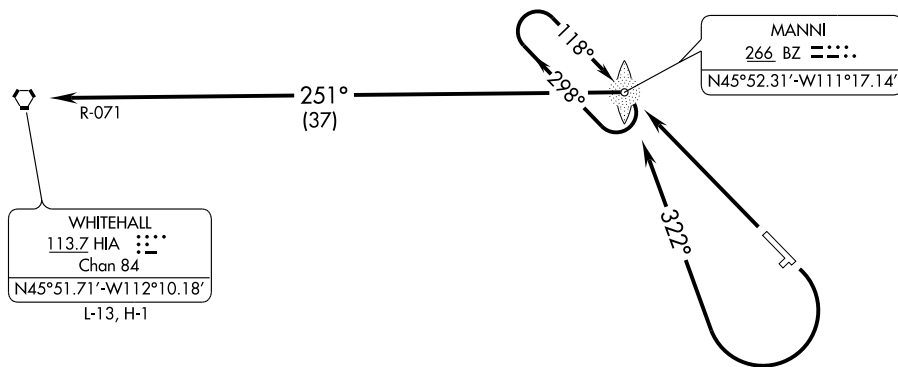
WHITEHALL ONE DEPARTURE

BOZEMAN/ GALLATIN FIELD (BZN)

SL-59 (FAA)

BOZEMAN, MONTANA

ATIS 135.425
 GND CON
 121.8
 BOZEMAN TOWER ★
 118.2 (CTAF)
 SALT LAKE CITY CENTER
 132.4 338.3



NOTE: ADF REQUIRED

TAKE-OFF MINIMUMS

Rwy 3, 21: NA - ATC.

Rwy 12: Standard

Rwy 30: Standard with a minimum climb of 294' per NM to 6500.

TAKE-OFF OBSTACLE NOTES

Rwy 30: Pole 636' from DER, 622' left of centerline, 62' AGL/4452' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 12: Climbing right turn to intercept 322° course to MANNI LOM. Climb in MANNI LOM holding pattern to at or above 8500, then intercept HIA R-071 to HIA VORTAC, cross HIA VORTAC at or above MCA or MEA for route of flight.

TAKE-OFF RUNWAY 30: Climbing left turn direct MANNI LOM. Climb in MANNI LOM holding pattern to at or above 8500, then intercept HIA R-071 to HIA VORTAC, cross HIA VORTAC at or above MCA or MEA for route of flight.

AL-588 (FAA)

LOC/DME I-BEY <u>110.9</u> Chan 46	APP CRS 151°	Rwy Idg 9001 TDZE 5523 Apt Elev 5550
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ILS Y RWY 15

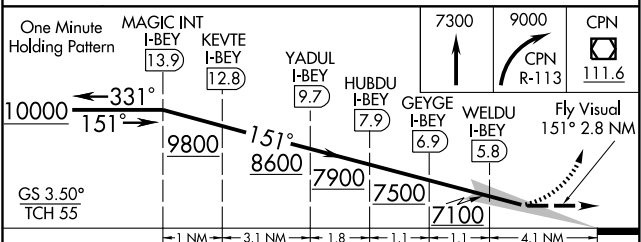
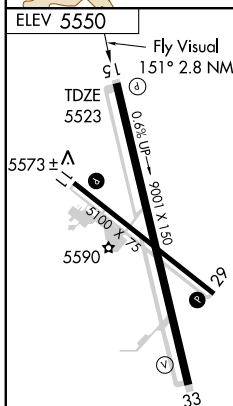
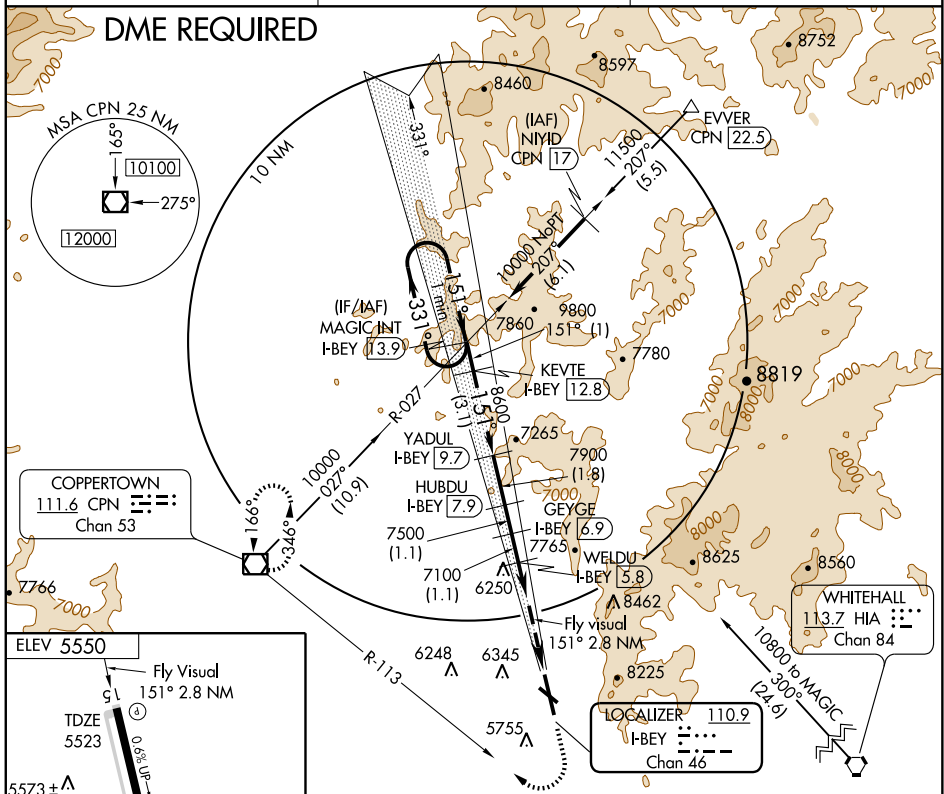
BUTTE/ BERT MOONEY (BTM)

T Circling not authorized northeast of Rwy 15-33.
A When glideslope not used, use LOC/DME RWY 15 procedure.
 Circling requires descent on glideslope to MDA.
 Autopilot coupled approach not authorized.

MISSED APPROACH: Climb to 7300 then climbing right turn to 9000 via CPN R-113 to CPN VOR/DME and hold.

ASOS 135.175	SALT LAKE CENTER 132.4 338.3	UNICOM 123.0(CTAF)0
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DME REQUIRED



CATEGORY	A	B	C	D
S-ILS 15	6596-2 1073 (1100-2)	6596-3 1073 (1100-3)	NA	
CIRCLING	6600-4 1050 (1100-4)	6660-4 1110 (1200-4)	NA	

REIL Rwys 11, 15 and 29 **L**
MIRL Rwys 11-29 and 15-33 **L**

JW-1. 22 OCT 2009 to 19 NOV 2009

LOC/DME I-BEY <u>110.9</u> Chan 46	APP CRS 151°	Rwy Idg 9001 TDZE 5523 Apt Elev 5550
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LOC/DME RWY 15
BUTTE/ BERT MOONEY (BTM)

T Circling not authorized NE of Rwy 15-33.
A If local altimeter setting not received, procedure NA.

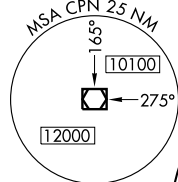
MISSED APPROACH: Climbing right turn to 9200 direct CPN VOR/DME and hold.


ASOS
135.175

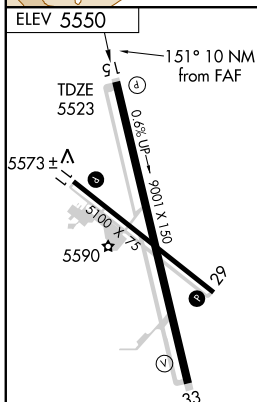
SALT LAKE CENTER
132.4 338.3

UNICOM
123.0 (CTAF) **L**

Identify ZIPPR INT with CPN R-038 and HIA R-297 prior to procedure turn; MRA HIA R-297 at ZIPPR 11000 feet.

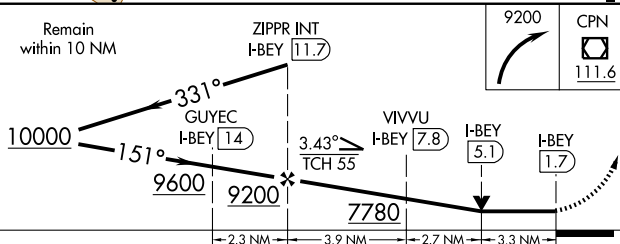


COPPERTOWN
111.6 CPN 
Chan 53



REIL Rwys 11, 15 and 29 **L**
MIRL Rwys 11-29 and 15-33 **L**

Knots	60	90	120	150	180
Min:Sec					



CATEGORY	A	B	C	D
S-LOC 15	6800-1¼ 1277 (1300-1¼)	6800-1½ 1277 (1300-1½)	6800-3	1277 (1300-3)
CIRCLING	6800-1¼ 1250 (1300-1¼)	6800-1½ 1250 (1300-1½)	6800-3	1250 (1300-3)

AL-588 (FAA)

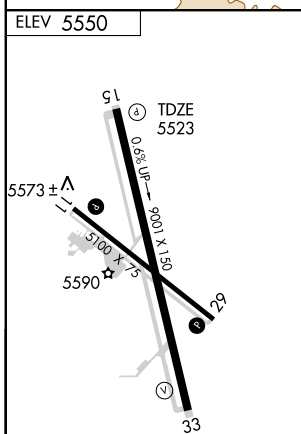
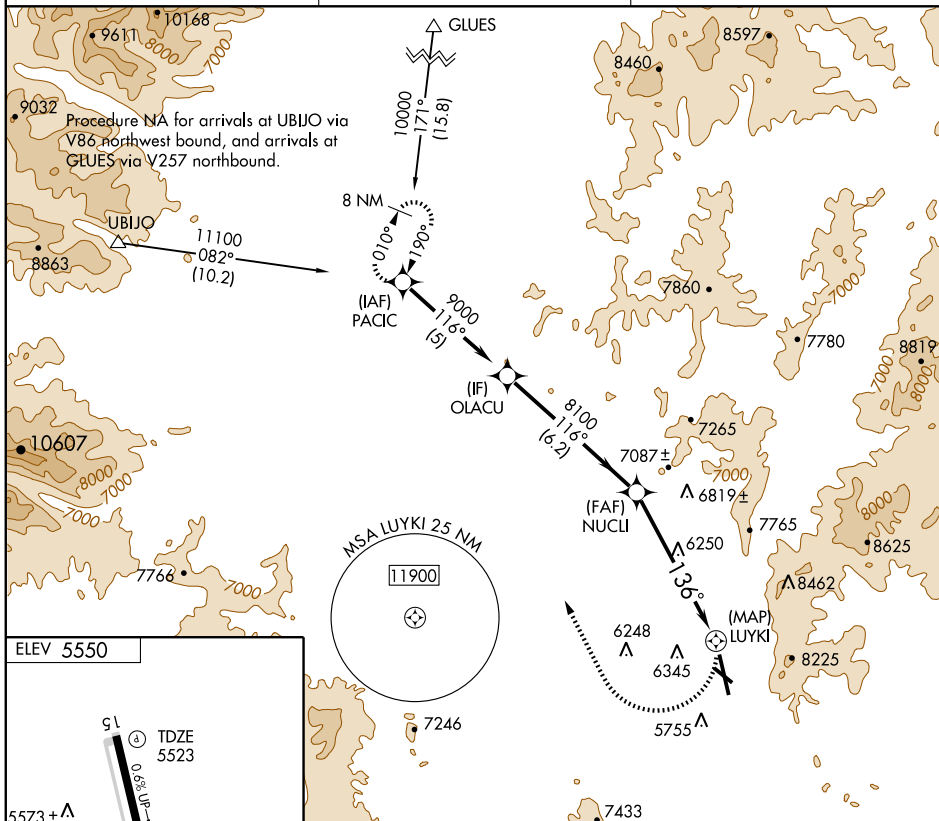
RNAV (GPS) Y RWY 15
BUTTE/BERT MOONEY (BTM)

T Circling NA northeast of Rwy 15-33.
A DME/DME RNP -0.3 NA.
Visibility reduction by helicopters NA.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing right turn to 10000 direct PACIC and hold.

ASOS
135.175

SALT LAKE CENTER
132.4 338.3

UNICOM
123.0 (CTAF) **L**

<p>OLACU</p> <p>9000</p> <p>Procedure Turn NA</p> <p>116°</p> <p>8100</p> <p>3.69° TCH 55</p> <p>136°</p> <p>LUYKI</p> <p>6.2 NM</p> <p>6 NM</p> <p>0.5 NM</p> <p>10000</p> <p>PACIC</p>				
CATEGORY	A	B	C	D
LNAV MDA	7040-1¼ 1517 (1500-1¼)	7040-1½ 1517 (1500-1½)	7040-3 1517 (1500-3)	NA
CIRCLING	7040-1¼ 1490 (1500-1¼)	7040-1½ 1490 (1500-1½)	7040-3	1490 (1500-3)

NW-1. 22 OCT 2009 to 19 NOV 2009

REIL Rwy 11, 15 and 29 **L**
MIRL Rwy 11-29 and 15-33 **L**

WAAS CH 50599 W15A	APP CRS 151°	Rwy Idg 9001 TDZE 5523 Apt Elev 5550
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RNAV (GPS) Z RWY 15

BUTTE/BERT MOONEY (BTM)



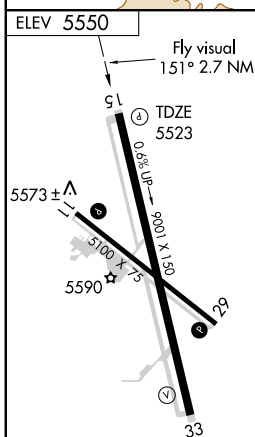
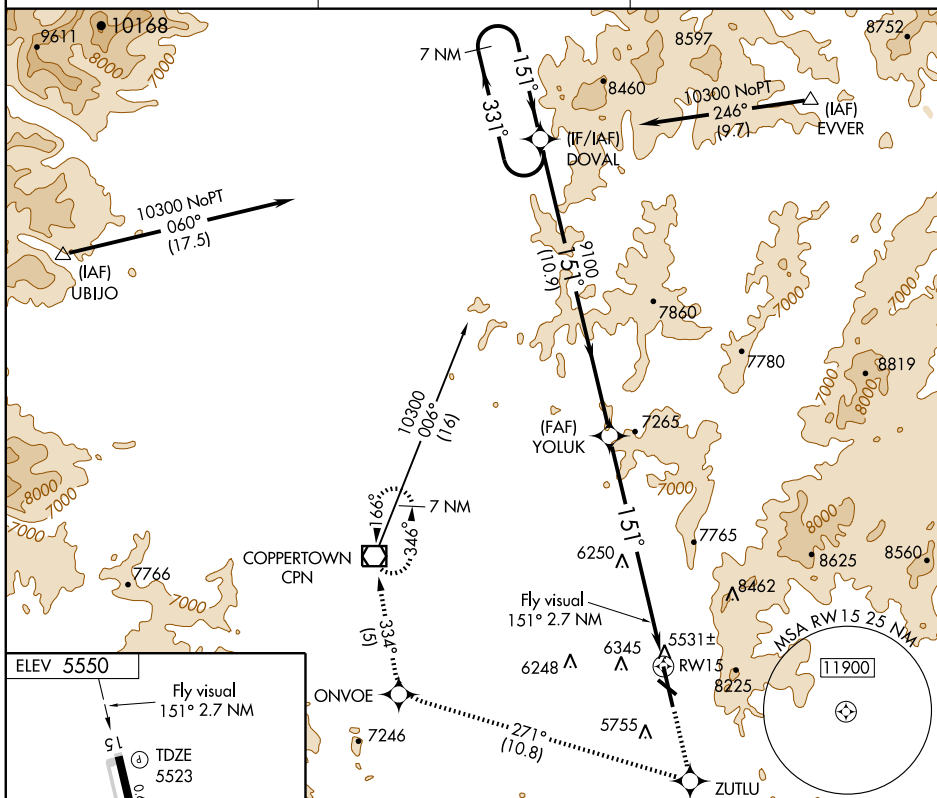
DME/DME RNP- 0.3 NA.

If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 10000 direct ZUTLU and right turn via 271° track to ONVOE and via 334° track to CPN VOR/DME and hold, continue climb-in-hold to 10000.

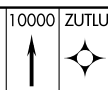
ASOS
135.175

SALT LAKE CENTER
132.4 338.3

UNICOM
123.0 (CTAF) **L**

7 NM
Holding Pattern

DOVAL



334



VGSI and RNAV glidepath not coincident.

10300

10000

$$\frac{\text{GS } 3.88^\circ}{\text{TCH } 55}$$

1518

YOLUK

DWA/1 A

RWIS
Fly visual
151° 2.7 NM

710

--	--

Figure 1

CATEGORY		A	B	C	D
LPV	DA	6660-2	1137 (1200-2)	NA	
LNAV/	DA				NA
VNAV					
LNAV	MDA				NA
CIRCLING					NA

NW-1. 22 OCT 2009 to 19 NOV 2009

REIL Rwy 11, 15 and 29 **L**
MIRL Rwy 11-29 and 15-33 **L**

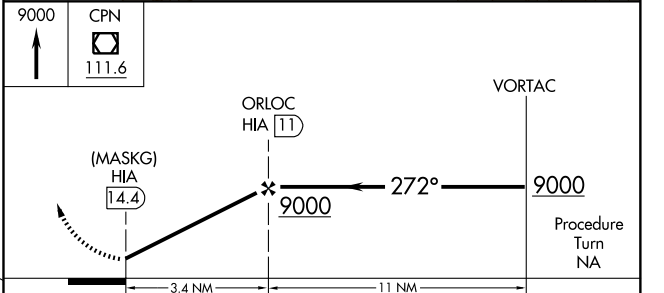
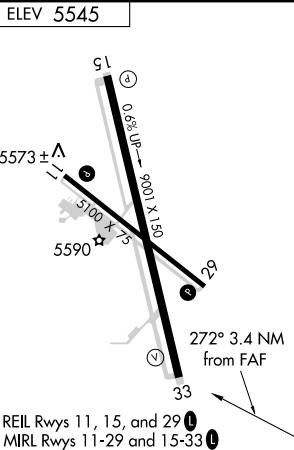
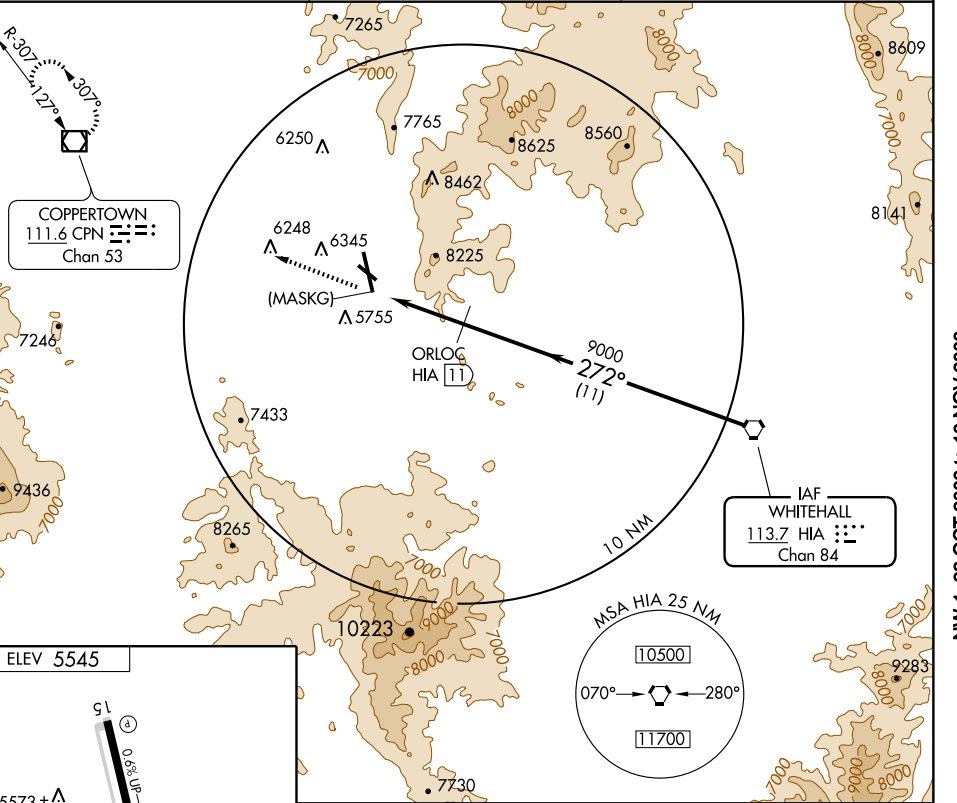
▼

▲

Circling not authorized NE of Rwy 15-33.

MISSED APPROACH: Climb to 9000 direct CPN VOR/DME and hold.

ASOS 135.175	SALT LAKE CENTER 132.4 338.3	UNICOM 123.0(CTAF) 0
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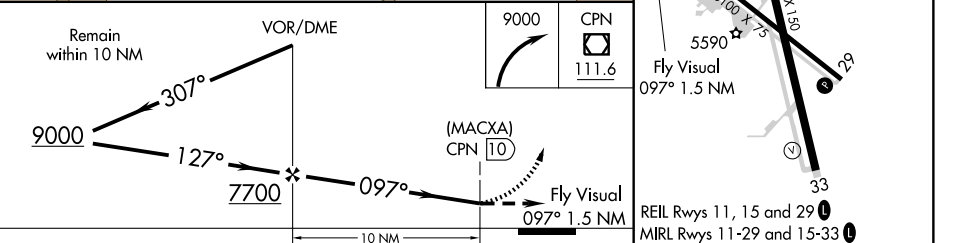
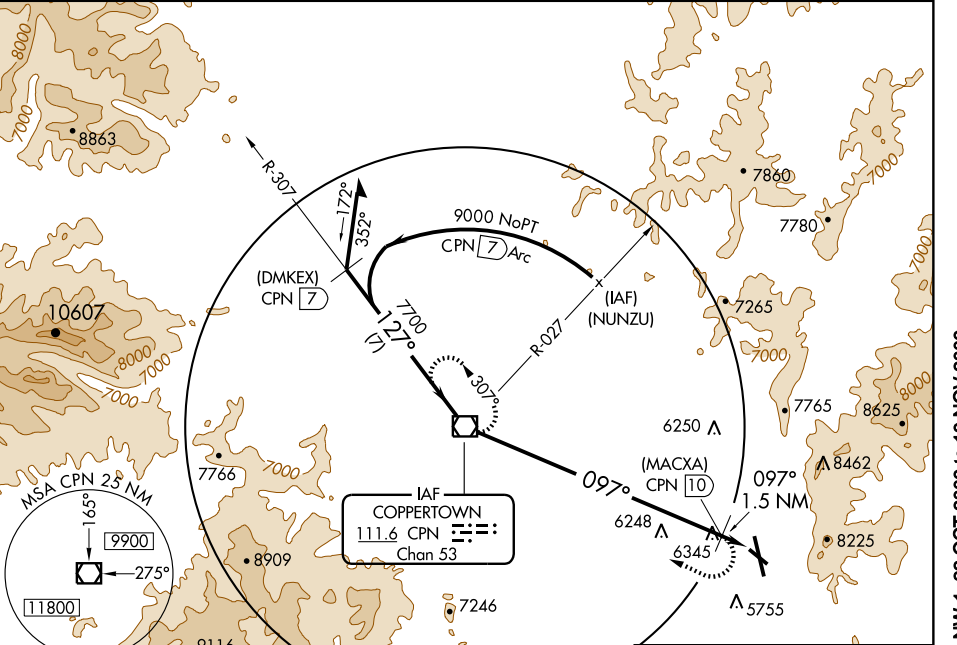


						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	8540-1¼	8540-1½	8540-3	2995 (3000-3)
Min:Sec							2995 (3000-1¼)	2995 (3000-1½)		

VOR/DME CPN 111.6 Chan 53	APP CRS 097°	Rwy Idg TDZE Apt Elev N/A N/A 5545
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<div><div></div><div></div></div> <div>Circling not authorized NE of Rwy 15-33.</div>	MISSED APPROACH: Climbing right turn to 9000 direct CPN VOR/DME and hold.
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ASOS 135.175	SALT LAKE CENTER 132.4 338.3	UNICOM 123.0(CTAF)0
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CATEGORY	A	B	C	D	FAF to MAP 10 NM					
CIRCLING	6900-1½ 1355 (1400-1½)		6900-3 1355 (1400-3)		Knots	60	90	120	150	180
					Min:Sec	10:00	6:40	5:00	4:00	3:20

NW-1. 22 OCT 2009 to 19 NOV 2009

NDB CII <u>269</u>	APP CRS 226°	Rwy Idg TDZE Apt Elev	3700 3940 3949
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NDB or GPS RWY 23
CHOTEAU (CII)

CHOTEAU (CII)

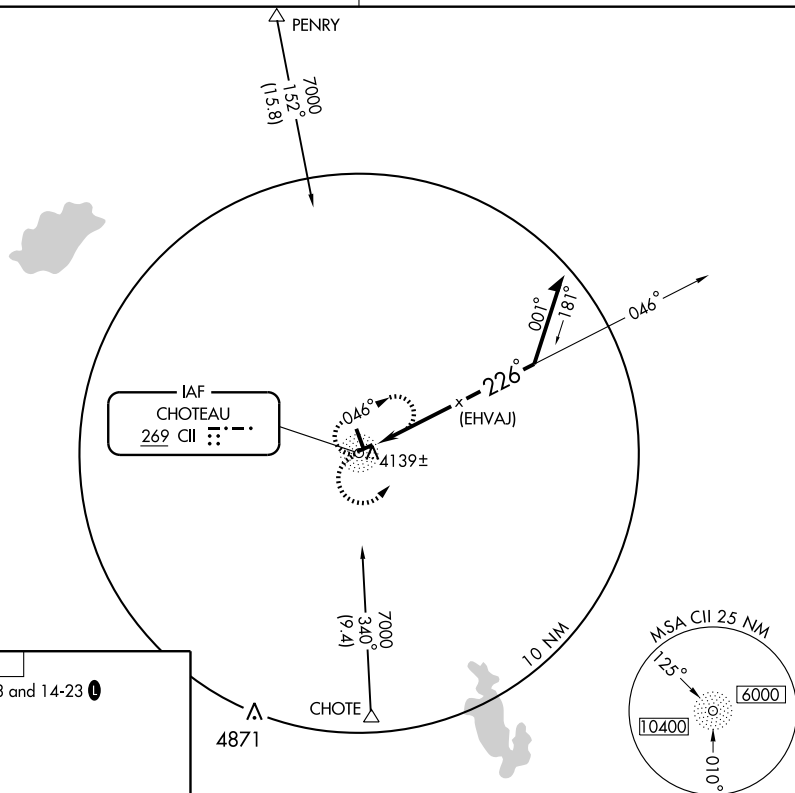
ANA

Use Great Falls altimeter setting.

MISSED APPROACH: Climbing left turn to 6000 direct CII NDB and hold.

SALT LAKE CITY CENTER
133.4 285.4

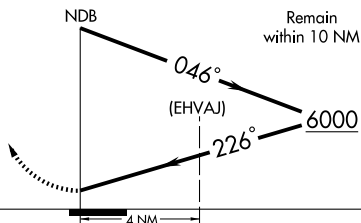
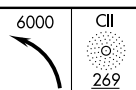
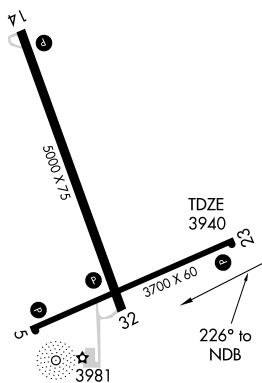
UNICOM
122.8 (CTAF) **L**



NW-1. 22 OCT 2009 to 19 NOV 2009

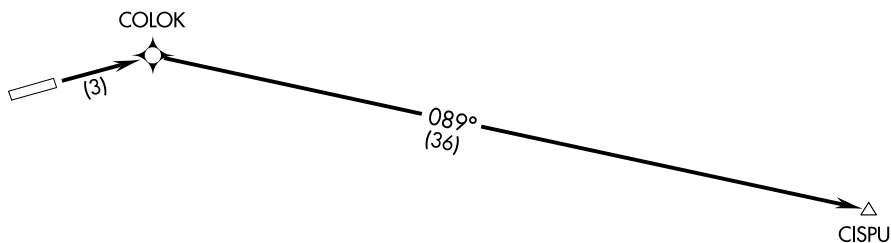
ELEV 3949

MIRL Rwy 5-23 and 14-23 **L**



<div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div>3981</div></div> <div>NDB</div>							CATEGORY					A		B		C		D	
							S-23					4720-1 780 (800-1)		4720-1½ 780 (800-1½)		4720-2¼ 780 (800-2¼)		NA	
Knots		60	90	120	150	180	CIRCLING					4720-1 775 (800-1)		4720-1½ 775 (800-1½)		4720-2¼ 775 (800-2¼)		NA	
Min:Sec																			

SALT LAKE CENTER
127.75 351.9



TAKE-OFF MINIMUMS

Rwy 6: Standard.
Rwy 24: NA - ATC.

TAKE-OFF OBSTACLE NOTES

Rwy 6: Tree 1492' from DER, 620' right of centerline, 20' AGL/3499' MSL.
Tree 507' from DER, 598' left of centerline, 20' AGL/3419' MSL.

NOTE: GPS required.

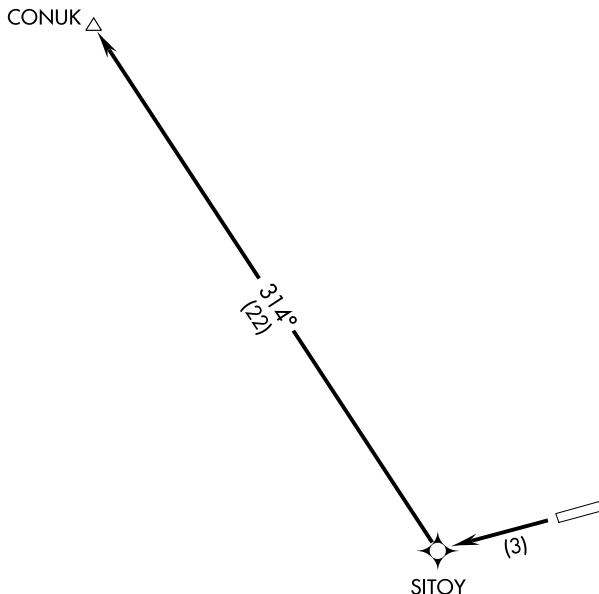
NOTE: RNAV 1

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 6: Climb direct COLOK then via 089° track to CISPU, thence....
....Maintain 9000, expect filed altitude 10 minutes after departure.

CONUK ONE DEPARTURE (RNAV) (OBSTACLE)

SALT LAKE CENTER
127.75 351.9TAKE-OFF MINIMUMS

Rwy 6: NA - ATC.

Rwy 24: 600-3 or standard with minimum climb of 365' per NM to 4200.

TAKE-OFF OBSTACLE NOTE

Rwy 24: Dragline 11510' from DER, 3559' right of centerline, 225' AGL/3964' MSL.

NOTE: GPS required.

NOTE: RNAV 1

NOTE: Chart not to scale.




DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 24: Climb direct SITOY then via 314° track to CONUK, thence....

....Maintain 6000, expect filed altitude 10 minutes after departure.

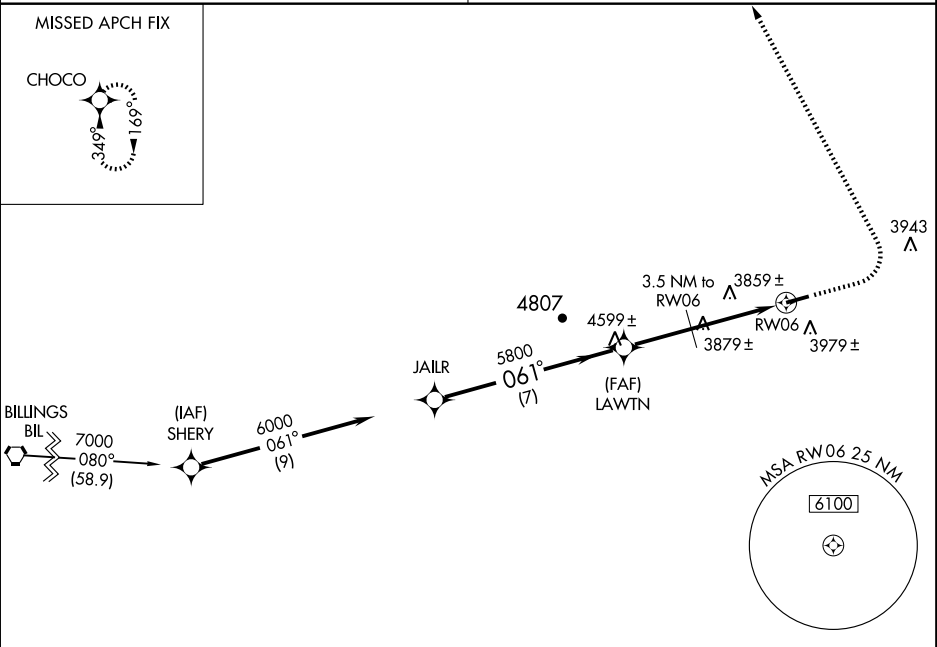
APP CRS	Rwy Idg	5100
061°	TDZE	3426
	Apt Elev	3426

 **NA**
When local altimeter not received use Miles City
altimeter setting.

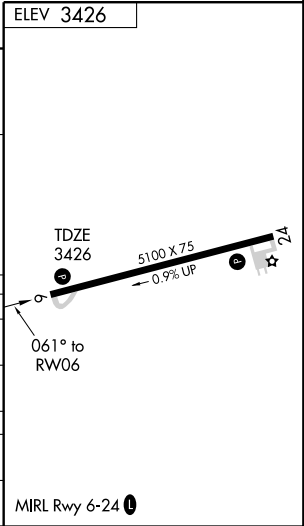
MISSED APPROACH: Climb to 4500 then climbing left turn to
6000 direct CHOCO WP and hold.

SALT LAKE CENTER
127.75 351.9

CTAF
122.90



ELEV 3426				
<div><div>JAILR</div><div>6000</div><div>Procedure Turn NA</div></div> <div><div>*5045 when using Miles City altimeter setting.</div><div>4500</div><div>6000</div><div>CHOCO</div></div> <div><div>JAILR</div><div>6000</div><div>061°</div><div>LAWNTN</div><div>5800</div><div>3.5 NM to RWY06</div><div>*4800</div><div>RWY06</div></div> <div><div>7 NM</div><div>2.5 NM</div><div>3.5 NM</div></div>				
CATEGORY	A	B	C	D
S-6	4220-1 794 (800-1)	4220-1 ¼ 794 (800-1 ¼)	4220-2 ¼ 794 (800-2 ¼)	NA
CIRCLING	4340-1 ¼ 914 (1000-1 ¼)	914 (1000-1 ¼)	4340-2 ¾ 914 (1000-2 ¾)	NA
MILES CITY ALTIMETER SETTING				
S-6	NA			
CIRCLING	4580-1 ¼ 1154 (1200-1 ¼)	4580-1 ½ 1154 (1200-1 ½)	4580-3 1154 (1200-3)	NA



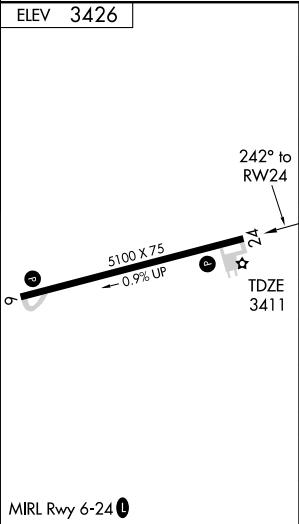
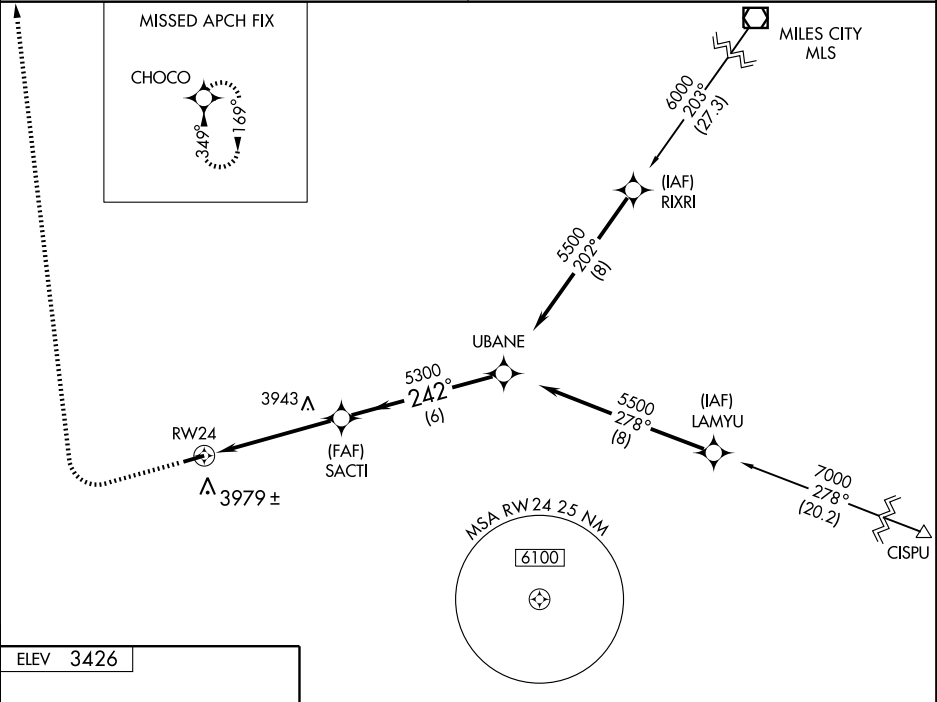
GPS RWY 24
COLSTRIP (M46)

APP CRS	Rwy Idg	5100
242°	TDZE	3411
	Apt Elev	3426

When local altimeter not received use Miles City
altimeter setting.

MISSED APPROACH: Climb to 4500 then climbing right turn to
6000 direct CHOCO WP and hold.

SALT LAKE CENTER 127.75 351.9	CTAF 122.9 0
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	4500	6000	CHOCO	
	↑	↪	✧	
				UBANE
			SACTI	5500
			5300	242°
				Procedure Turn NA
				5 NM
				6 NM
CATEGORY	A	B	C	D
S-24	4200-1 789 (800-1)	4200-1¼ 789 (800-1¼)	4200-2¼ 789 (800-2¼)	NA
CIRCLING	4340-1¼ 914 (1000-1¼)	4340-2¼ 914 (1000-2¼)	4340-3¼ 914 (1000-3¼)	NA
MILES CITY ALTIMETER SETTING				
S-24	4440-1¼ 1029 (1100-1¼)	4440-1½ 1029 (1100-1½)	4440-2¾ 1029 (1100-2¾)	NA
CIRCLING	4580-1¼ 1154 (1200-1¼)	4580-1½ 1154 (1200-1½)	4580-3 1154 (1200-3)	NA

NDB CRD	APP CRS	Rwy Idg	4601
<u>293</u>	230°	TDZE	3535
		Apt Elev	3545

NDB or GPS RWY 24
CONRAD (S01)

CONRAD (S01)



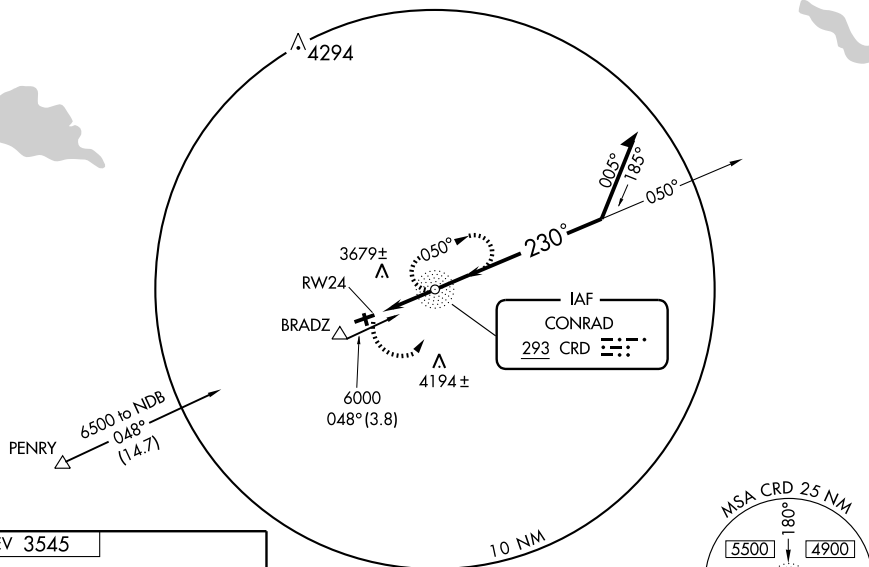
ANA

Use Cut Bank altimeter setting; if not received, procedure not authorized.

MISSED APPROACH: Climbing left turn to 5200 direct CRD NDB and hold.

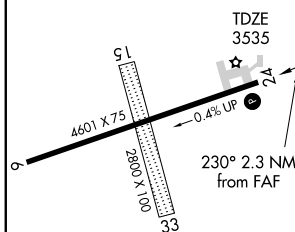
SALT LAKE CITY CENTER
133.4 285.4

UNICOM
122.8 (CTAF) **L**



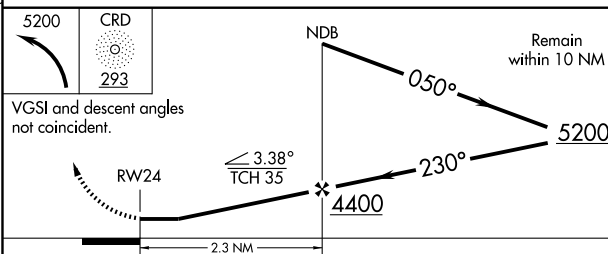
NW-1. 22 OCT 2009 to 19 NOV 2009

ELEV 3545

MIRL Rwy 6-24 **L**REIL Rwy 24 **L**

FAF to MAP 2.3 NM

Knots	60	90	120	150	180
Min:Sec	2:18	1:32	1:09	0:55	0:46



CATEGORY	A	B	C	D
S-24	4260-1	725 (800-1)	4260-2 725 (800-2)	4260-2¼ 725 (800-2¼)
CIRCLING	4260-1	715 (800-1)	4340-2¼ 795 (800-2¼)	NA

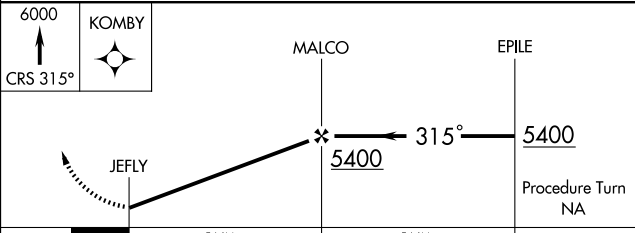
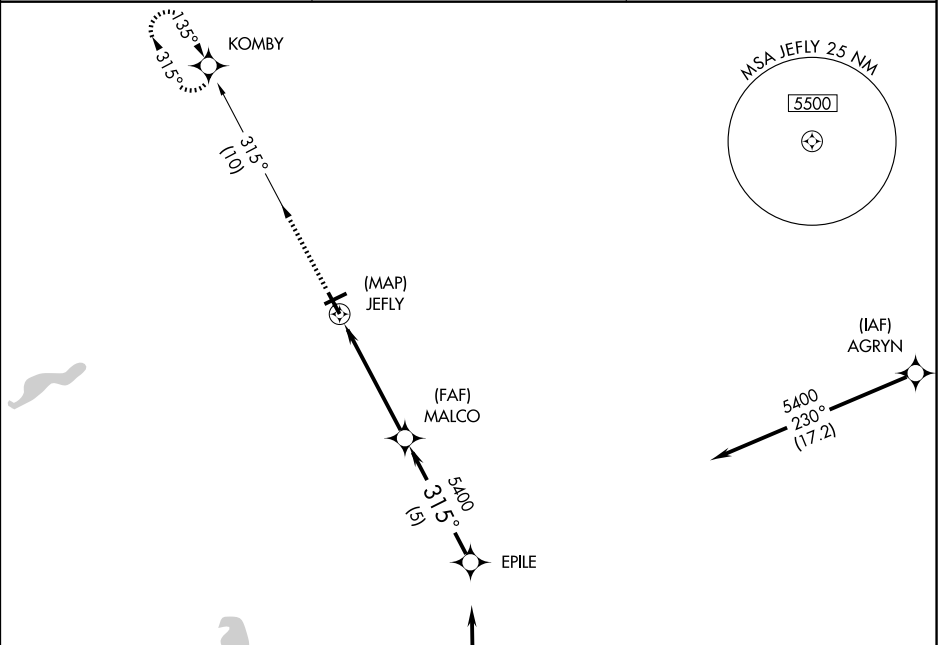
APP CRS	Rwy Idg	5300
315°	TDZE	3847
	Apt Elev	3854

GPS RWY 31

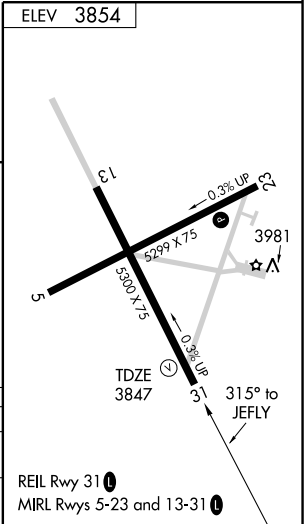
CUT BANK MUNI (CTB)

NA	IAF ARM APPROACH MODE PRIOR TO IAF.	MISSED APPROACH: Climb to 6000 via 315° course to KOMBY WP and hold.
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ASOS 119.025	SALT LAKE CITY CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-31	4220-1	373 (400-1)		4220-1¼ 373 (400-1¼)
CIRCLING	4220-1 366 (400-1)	4320-1 466 (500-1)	4320-1½ 466 (500-½)	4420-2 566 (600-2)



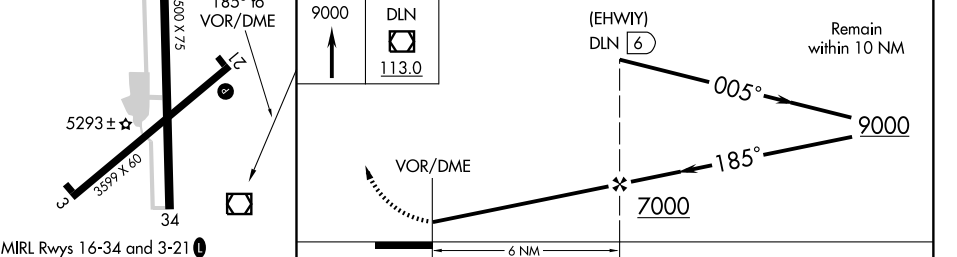
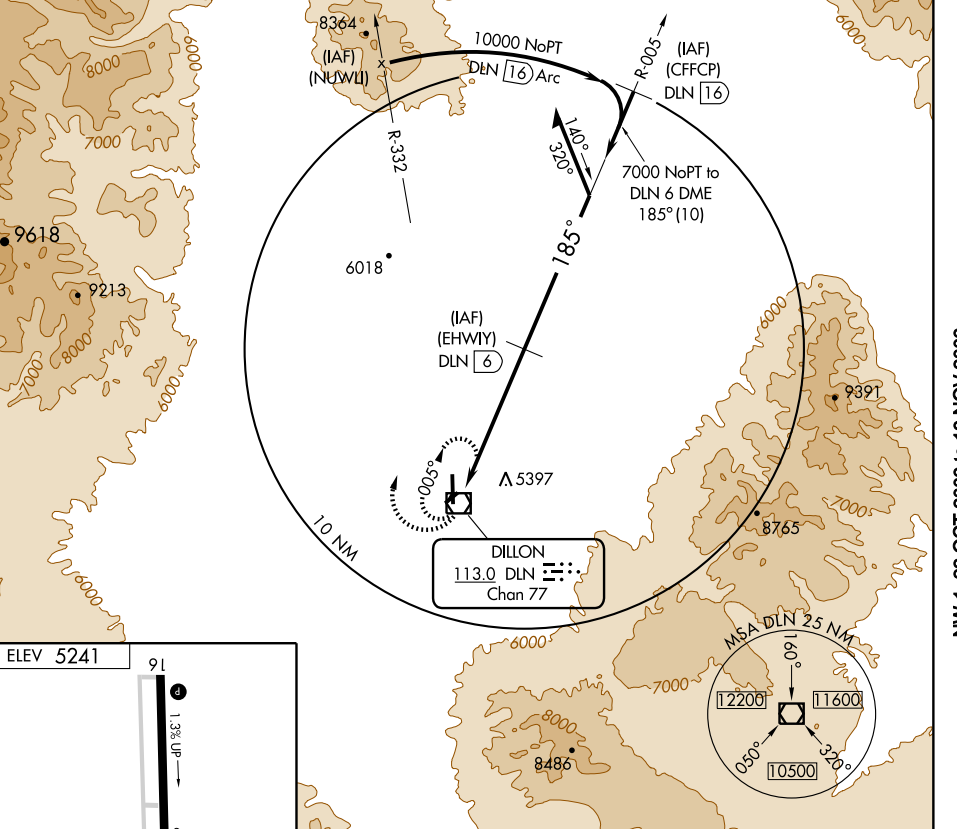
▼

▲

Procedure not authorized when Dillon altimeter setting not available.

MISSED APPROACH: Climb to 9000 in DLN VOR/DME holding pattern.

ASOS 135,225	SALT LAKE CENTER 132.4 338.3	UNICOM 122.8 (CTAF) 0
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ELEV 5241	91	1.3% UP	6500 X 75	185° to VOR/DME	5293 ±	3599 X 60	34
MIRL Rwy 16-34 and 3-21	9000	DLN 113.0	(EHWY) DLN 6	Remain within 10 NM	005°	185°	9000
	VOR/DME	7000	6 NM				
CATEGORY	A	B	C	D			
Knots	60	90	120	150	180		
Min:Sec							
CIRCLING	5720-1 482 (500-1)	5740-1 502 (600-1)	5760-1½ 522 (600-1½)	5840-2 602 (700-2)			

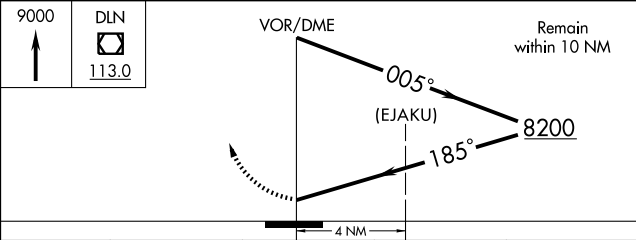
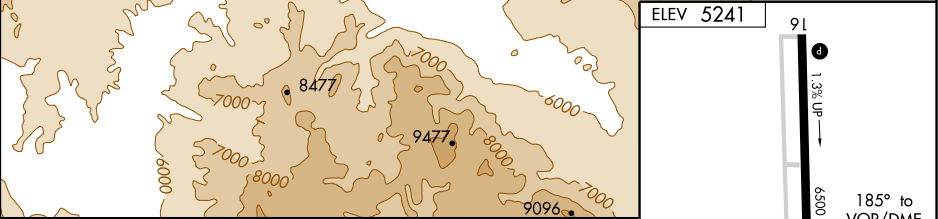
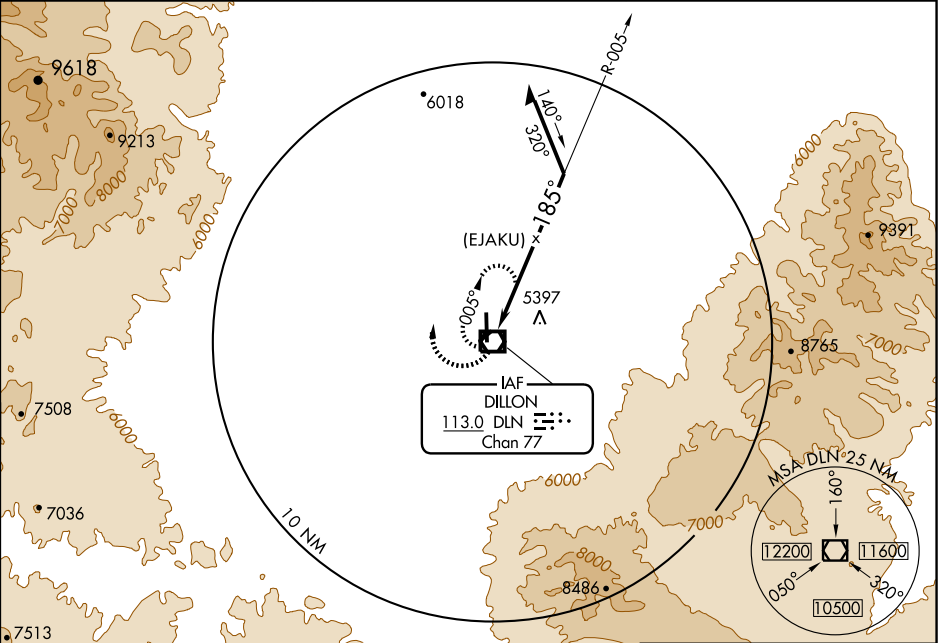
NW-1, 22 OCT 2009 to 19 NOV 2009

VOR or GPS-A
DILLON (DLN)

VOR/DME DLN 113.0 Chan 77	APP CRS 185°	Rwy Idg TDZE Apt Elev 5241	N/A N/A
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 Procedure not authorized when Dillon altimeter setting not available.	MISSED APPROACH: Climb to 9000 in DLN VOR/DME holding pattern.
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ASOS 135.225	SALT LAKE CENTER 132.4 338.3	UNICOM 122.8 (CTAF) 
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CATEGORY	A	B	C	D	Knots	60	90	120	150	180
CIRCLING	6700-1¼ 1462 (1500-1¼)	6700-1½ 1462 (1500-1½)	6700-3	1462 (1500-3)	Min:Sec					

NDB FOR	APP CRS	Rwy Idg	4799
<u>236</u>	<u>257°</u>	TDZE	2726
		Apt Elev	2727

NDB RWY 26
FORSYTH/ TILLITT FIELD (1S3)

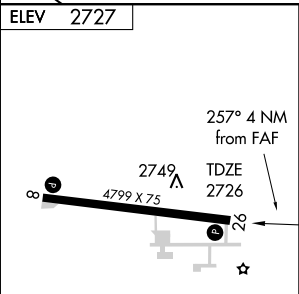
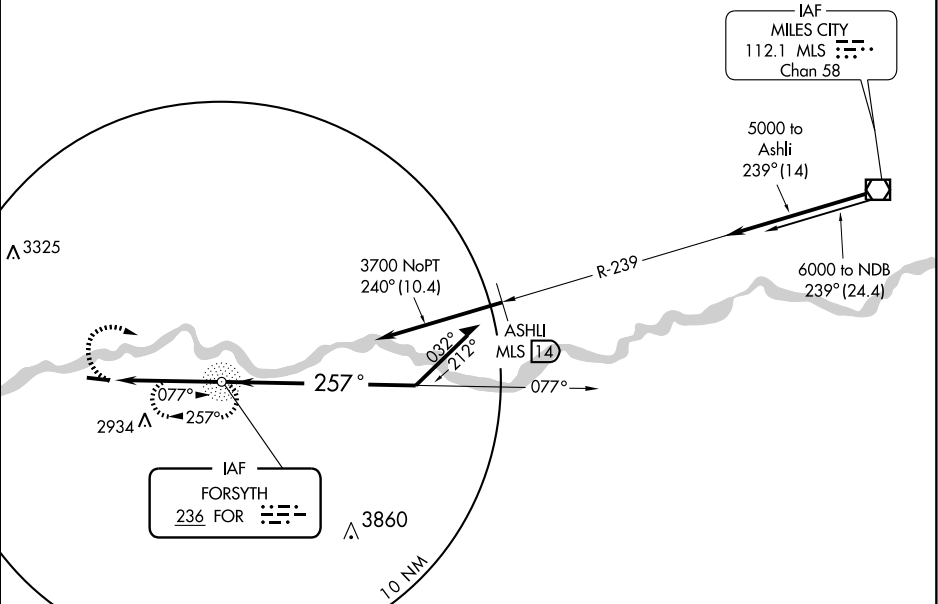
Use Miles City altimeter setting, when not available, except for operators with approved weather reporting services, procedure not authorized.

MISSED APPROACH: Climbing right turn to 4700 direct FOR NDB and hold.



GREAT FALLS RADIO
122.2 255.4

UNICOM
122.8 (CTAF) **1**



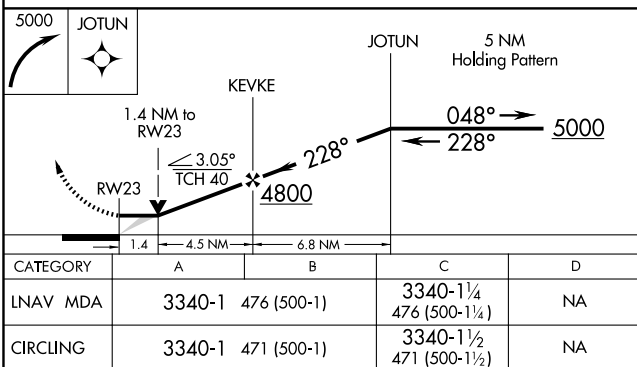
MIRL Rwy 8-26 **1**

FAF to MAP 4 NM					
Knots	60	90	120	150	180
Min:Sec	4:00	2:40	2:00	1:36	1:20

4700 FOR 236		NDB 077° 257° 4700		Remain within 10 NM	
4 NM		3700			
CATEGORY	A	B	C	D	
S-26	3340-1	614 (700-1)	3340-1 3/4	3340-2	
			614 (700-1 3/4)	614 (700-2)	
CIRCLING	3340-1	3420-1	3420-2	3440-2 1/4	
	614 (700-1)	694 (700-1)	694 (700-2)	714 (800-2 1/4)	

RNAV (GPS) RWY 23
FORT BENTON (79S)

MISSED APPROACH: Climbing right turn to 5000 direct JOTUN and hold.

UNICOM
122.8 (CTAF) **L**

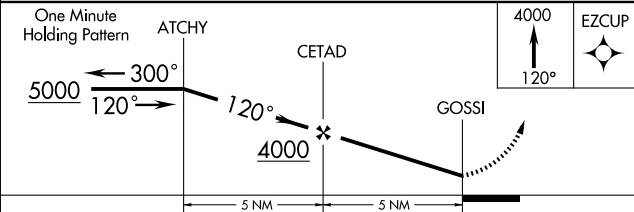
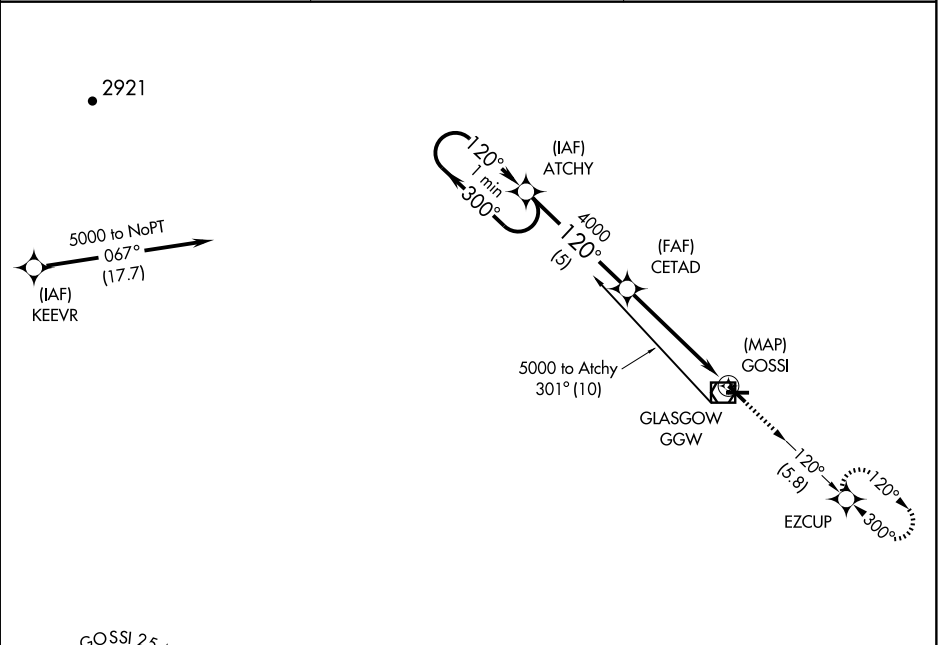
⚠ NA

MISSED APPROACH: Climb to 4000 via 120° course to EZCUP WP and hold.

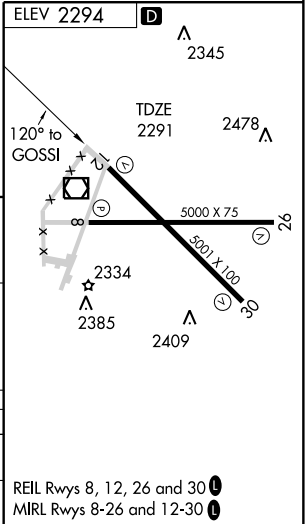
ASOS
135.175

SALT LAKE CENTER
126.85 305.2

UNICOM
122.8 (CTAF)



CATEGORY	A		B	C	D
S-12	2720-1	429 (500-1)	2720-1¼ 429 (500-1¼)	2720-1½ 429 (500-1½)	
CIRCLING	2780-1	486 (500-1)	2780-1½ 486 (500-1½)	2860-2 566 (600-2)	



NDB RWY 30

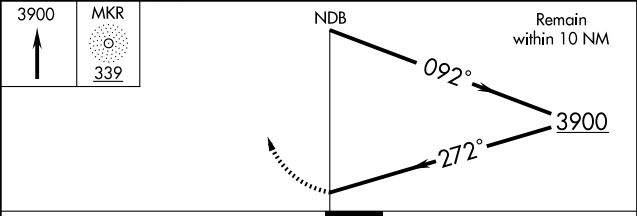
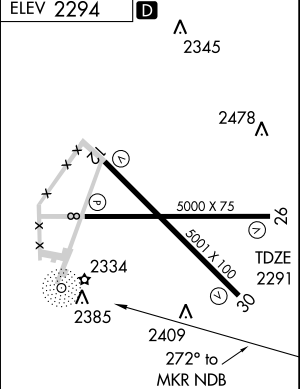
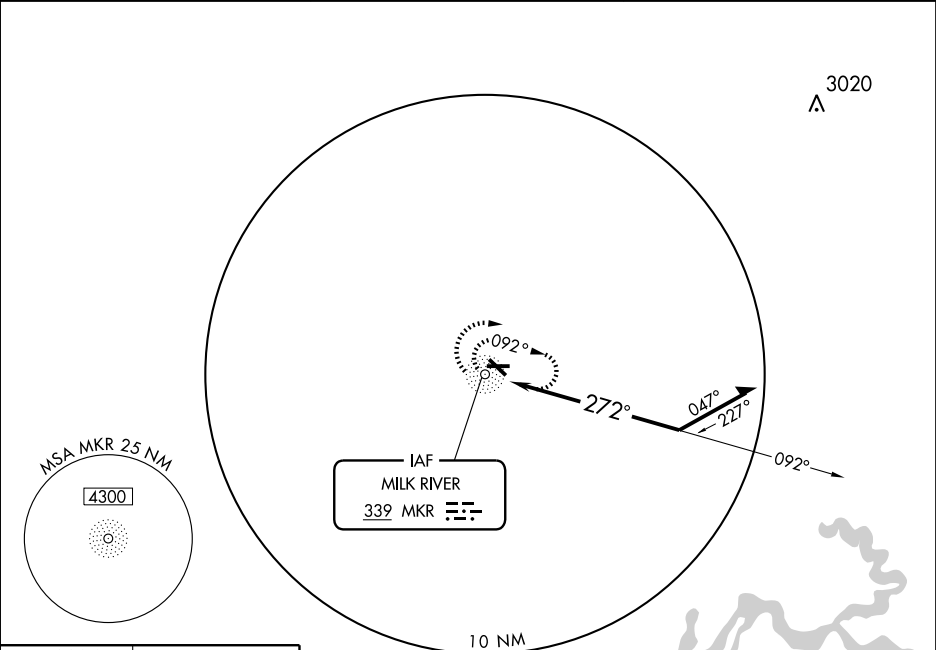
GLASGOW/WOKAL FIELD/GLASGOW INTL (G&W)



NDB MKR	APP CRS	Rwy Idg TDZE	5001 2291
339	272°	Apt Elev	2294

ACTIVATE MIRL Rwy 8-26 and 12-30-CTAF.

MISSED APPROACH: Climb to 3900 in MKR NDB holding pattern.

ASOS 135.175	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 
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REIL Rwy 8, 12, 26 and 30 
MIRL Rwy 8-26 and 12-30 

CATEGORY	A	B	C	D
S-30	2840-1	549 (600-1)	2840-1½ 549 (600-1½)	2840-1¾ 549 (600-1¾)
CIRCLING	2840-1	547 (600-1)	2840-1½ 547 (600-1½)	2860-2 567 (600-2)

VOR/DME GGW 113.9 Chan 86	APP CRS 293°	Rwy Idg TDZE Apt Elev	5001 2291 2294
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VOR or GPS RWY 30

GLASGOW/WOKAL FIELD/GLASGOW INTL (GGW)

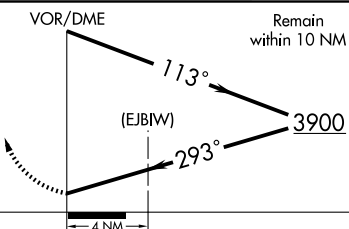
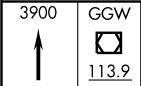
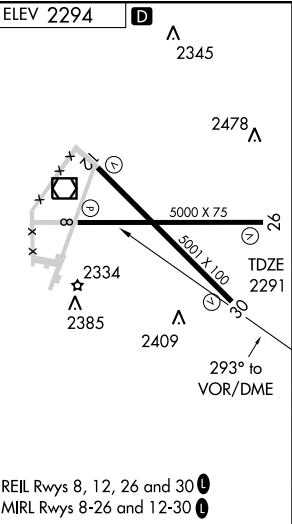
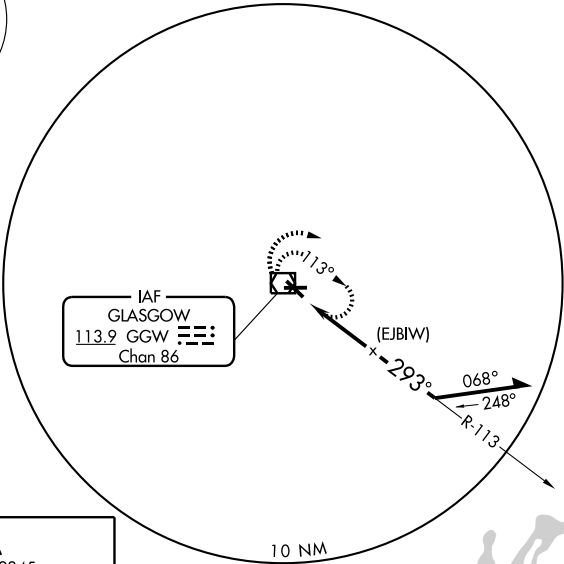
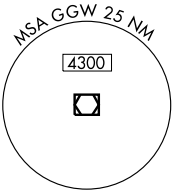
ACTIVATE MIRL Rwy 8-26 and 12-30-CTAF.

MISSED APPROACH: Climb to 3900 in GGW VOR/DME holding pattern.

ASOS
135.175

SALT LAKE CENTER
126.85 305.2

UNICOM
122.8 (CTAF)



CATEGORY	A		B	C	D
S-30	2780-1	489 (500-1)		2780-1½ 489 (500-1½)	2780-1½ 489 (500-1½)
CIRCLING	2780-1	487 (500-1)		2780-1½ 487 (500-1½)	2860-2 567 (600-2)

VOR/DME GGW 113.9 Chan 86	APP CRS 133°	Rwy Idg 5001 TDZE 2291 Apt Elev 2294
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VOR RWY 12
GLASGOW/WOKAL FIELD/GLASGOW INTL (GGW)

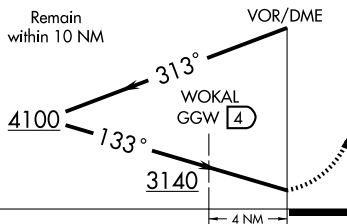
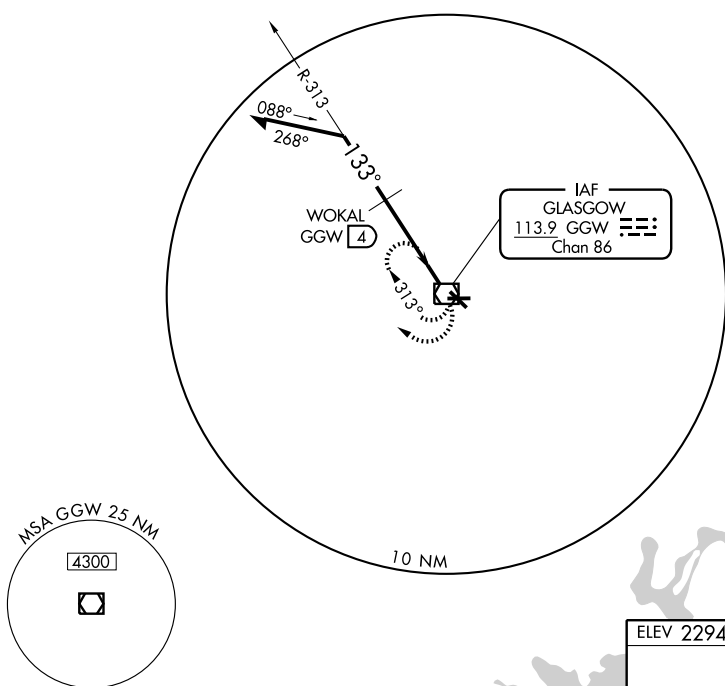
A ACTIVATE MIRL Rwy 8-26 and 12-30-CTAF.

MISSED APPROACH: Climb to 4100 in GGW VOR/DME holding pattern.

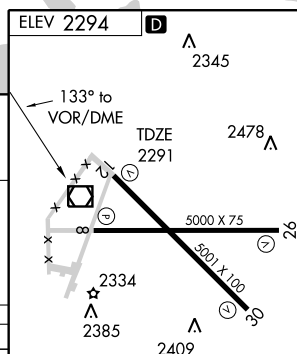
ASOS
135.175

SALT LAKE CENTER
126.85 305.2

UNICOM
122.8 (CTAF) **L**



CATEGORY	A	B	C	D
S-12	3140-1 849 (900-1)	3140-1¼ 849 (900-1¼)	3140-2½ 849 (900-2½)	3140-2¾ 849 (900-2¾)
CIRCLING	3140-1 847 (900-1)	3140-1¼ 847 (900-1¼)	3140-2½ 847 (900-2½)	3140-2¾ 847 (900-2¾)
VOR/DME MINIMUMS				
S-12	2700-1	409 (500-1)	2700-1¼	409 (500-1¼)
CIRCLING	2780-1	487 (500-1)	2780-1½ 487 (500-1½)	2860-2 567 (600-2)



REIL Rwys 8, 12, 26 and 30 **L**
MIRL Rwys 8-26 and 12-30 **L**

NDB GDV
410

APP CRS
131°

Rwy Idg	5704
TDZE	2456
Apt Elev	2456

NDB or GPS RWY 12

GLENDIVE/ DAWSON COMMUNITY (GDV)

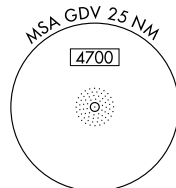
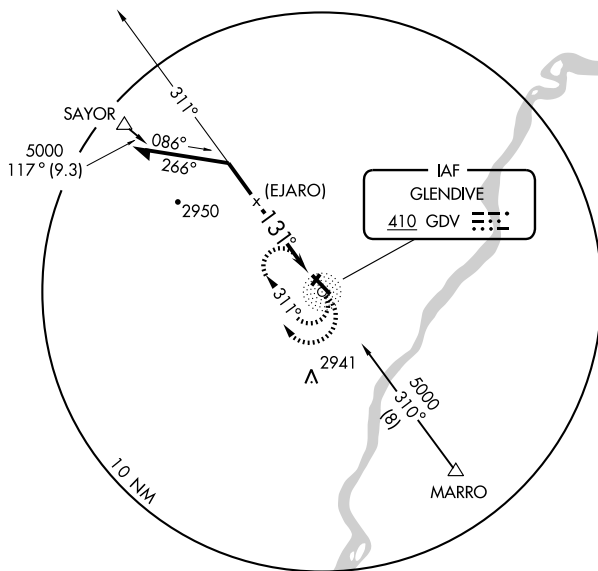
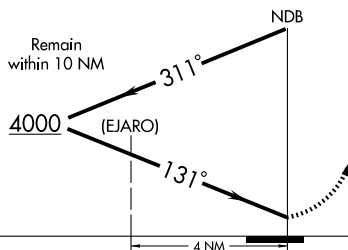


MISSED APPROACH: Climb to 5000 in GDV NDB holding pattern.

AWOS-3
135.075

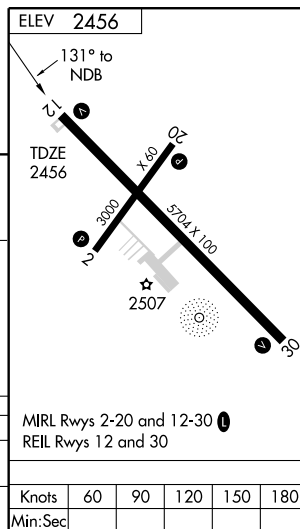
GREAT FALLS RADIO
122.55

UNICOM
122.8 (CTAF) **L**

 Δ^{3122} 

5000

GDV



CATEGORY	A	B	C	D
S-12	3300-1 844 (900-1)	3300-1¼ 844 (900-1¼)	3300-2½ 844 (900-2½)	3300-2¾ 844 (900-2¾)
CIRCLING	3300-1 844 (900-1)	3300-1¼ 844 (900-1¼)	3300-2½ 844 (900-2½)	3300-2¾ 844 (900-2¾)

MIRL Rwy 2-20 and 12-30 **L**
REIL Rwy 12 and 30

Knots	60	90	120	150	180
Min:Sec					

AIRPORT DIAGRAM

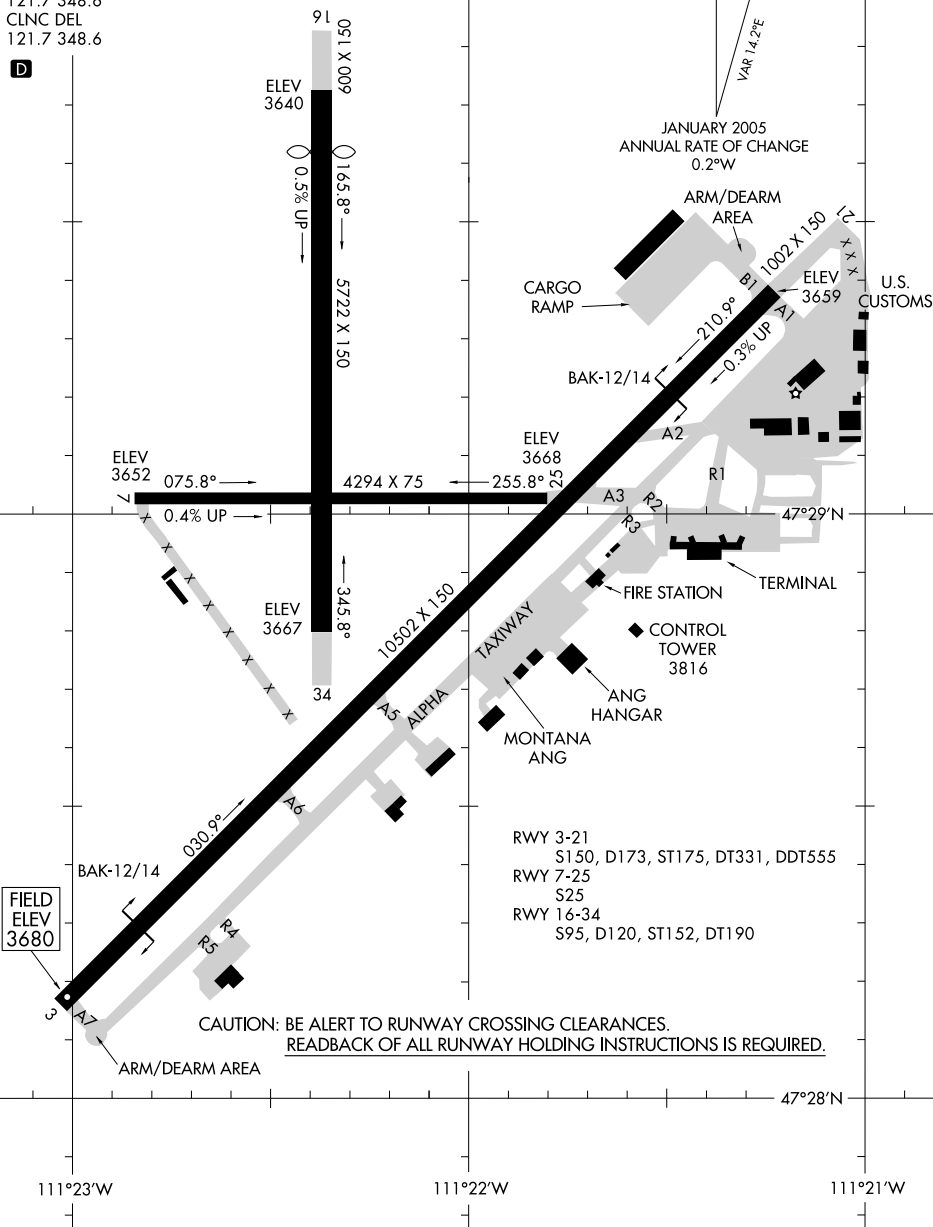
AL-177 (FAA)

GREAT FALLS INTL (GTF)
GREAT FALLS, MONTANA

NW-1: 22 OCT 2009 to 19 NOV 2009

ATIS
126.6 269.0
GREAT FALLS TOWER
118.7 282.2
GND CON
121.7 348.6
CLNC DEL
121.7 348.6

D

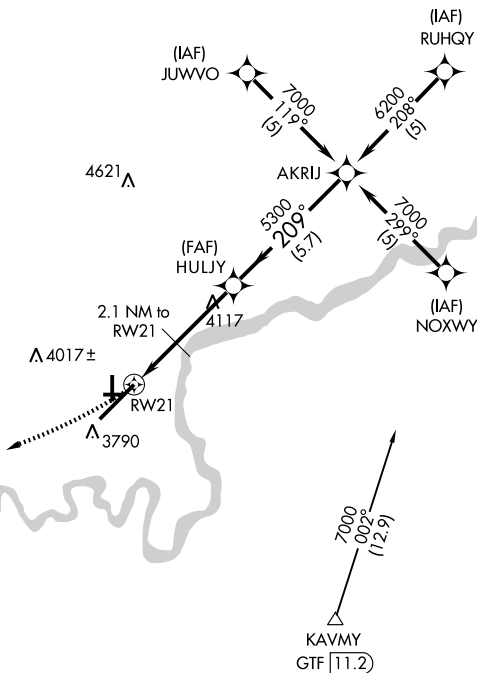
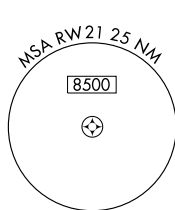


Rwy Idg	10502
TDZE	3669
Apt Elev	3680

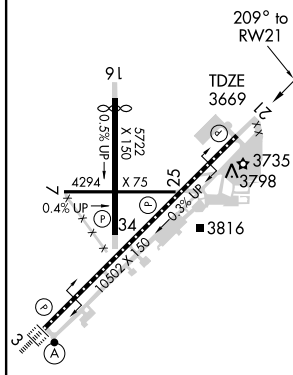


MISSED APPROACH: Climbing right turn to 8000 direct NUPUQ WP and hold.


CLNC DEL
121.7 348.6



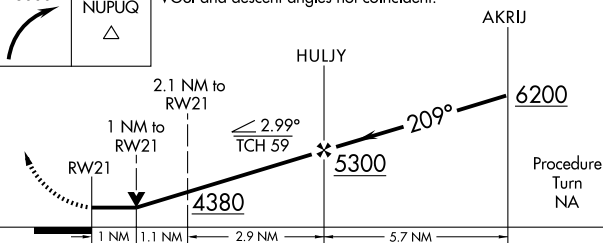
ELEV 3680



TDZ/CL Rwy 3
REIL Rwy 21
MIRL Rwy 7-25
HIRL Rwy 3-21 and 16-34

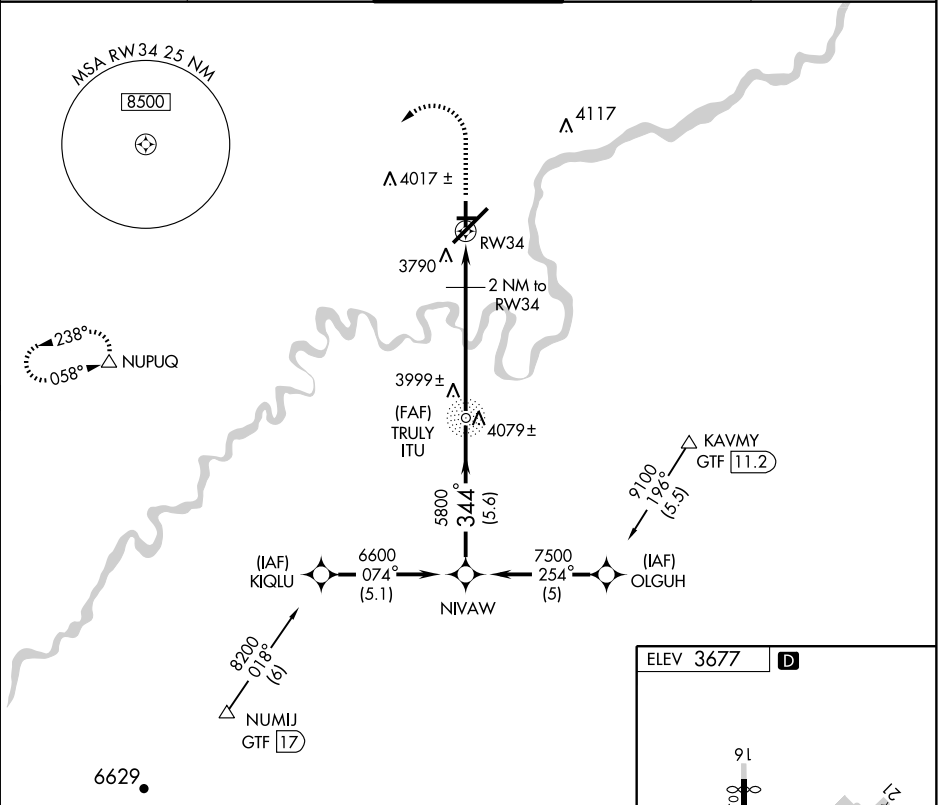
8000 	NUPUQ \triangle
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VGSI and descent angles not coincident.

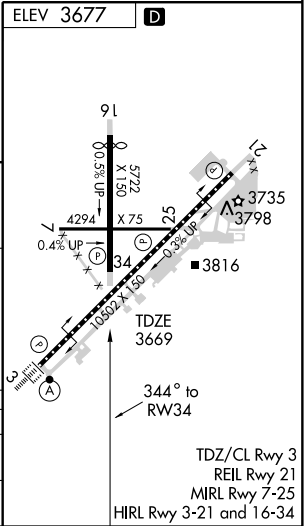


CATEGORY	A	B	C	D
S-21	4040-1 371 (400-1)			4040-1 ¼ 371 (400-1 ¼)
CIRCLING	4120-1 440 (500-1)	4140-1 460 (500-1)	4140-1 ½ 460 (500-1 ½)	4240-2 560 (600-2)

<div><div>▼</div><div>▲ NA</div></div>		MISSED APPROACH: Climb to 4300, then climbing left turn to 8000 direct NUPUQ WP and hold.		
ATIS	GREAT FALLS APP CON	GREAT FALLS TOWER	GND CON	CLNC DEL
126.6 269.0	128.6 259.1	118.7 282.2	121.7 348.6	121.7 348.6



NIVAW		4300		8000	NUPUQ
6600		344°		2.96°	TCH 50
Procedure Turn NA		5800		4340	RWY 34
5.6 NM		4.6 NM		2 NM	
CATEGORY	A	B	C	D	
S-34	4100-1	431 (500-1)	4100-1 1/4	4100-1 1/2	
			431 (500-1 1/4)	431 (500-1 1/2)	
CIRCLING	4120-1	4140-1	4140-1 1/2	4240-2	
	443 (500-1)	463 (500-1)	463 (500-1 1/2)	563 (600-2)	



VORTAC GTF
115.1
 Chan **98**

APCH CRS
029°

Rwy ldg **10,502**
 TDZE **3674**
 Arpt Elev **3680**

JAL 177 [USAF]

GREAT FALLS INTL (KGTF)

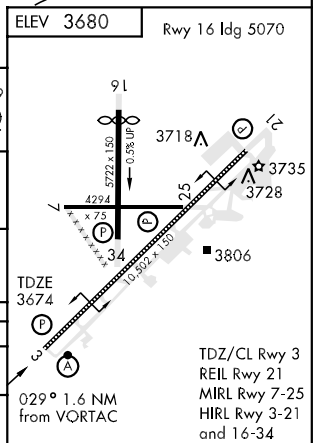
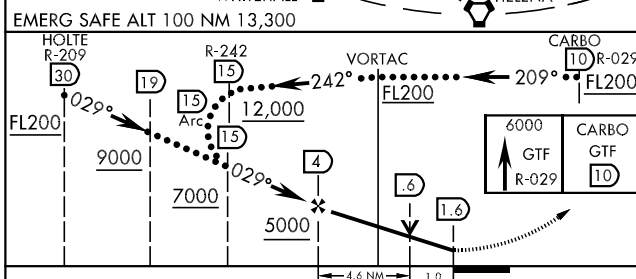
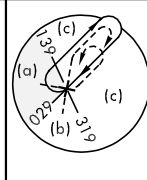
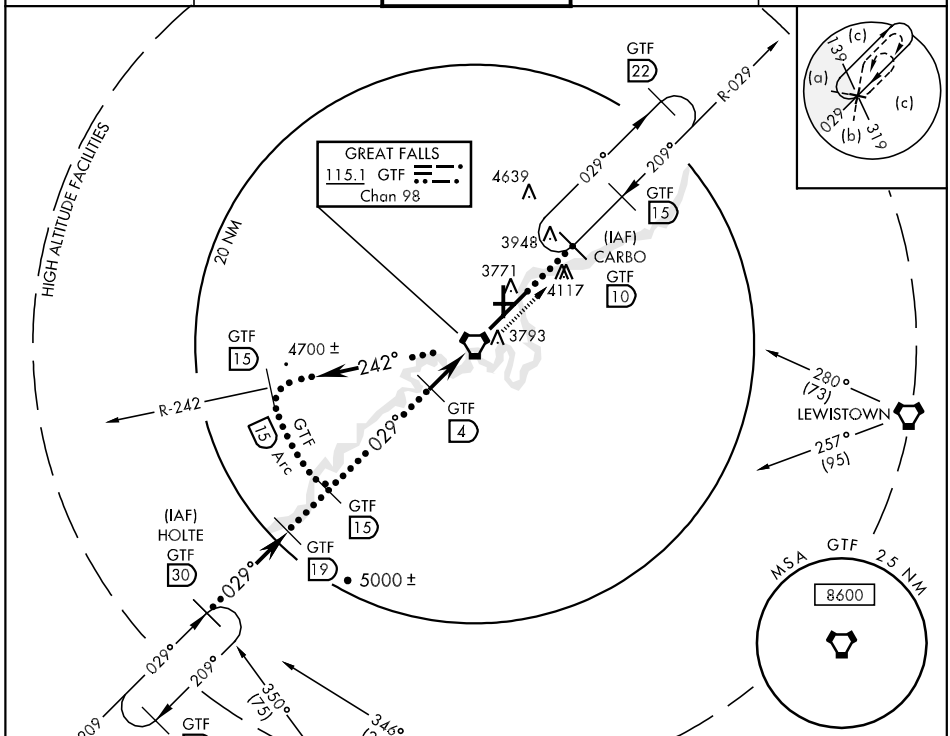
* When ALS inop, increase CAT DE RVR to 60 and vis to 1¼ miles.

ALSF-2



MISSED APPROACH: Climb to 6000 via GTF R-029 to CARBO 10 DME and hold.

ATIS 126.6 269.0	GREAT FALLS APP CON 128.6 259.1	GREAT FALLS TOWER 118.7 282.2	GND CON 121.7 348.6	CLNC DEL 121.7 348.6
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VORTAC GTF
115.1
Chan 98

APCH CRS
209°

Rwy Idg	10,502
TDZE	3665
Arpt Elev	3680

JAL-177 [USAF]

GREAT FALLS INTL (KGTF)

MISSED APPROACH: Climbing right turn to 6000 heading 350°, intercept GTF 12 DME Arc to ABORN 12 DME and hold.

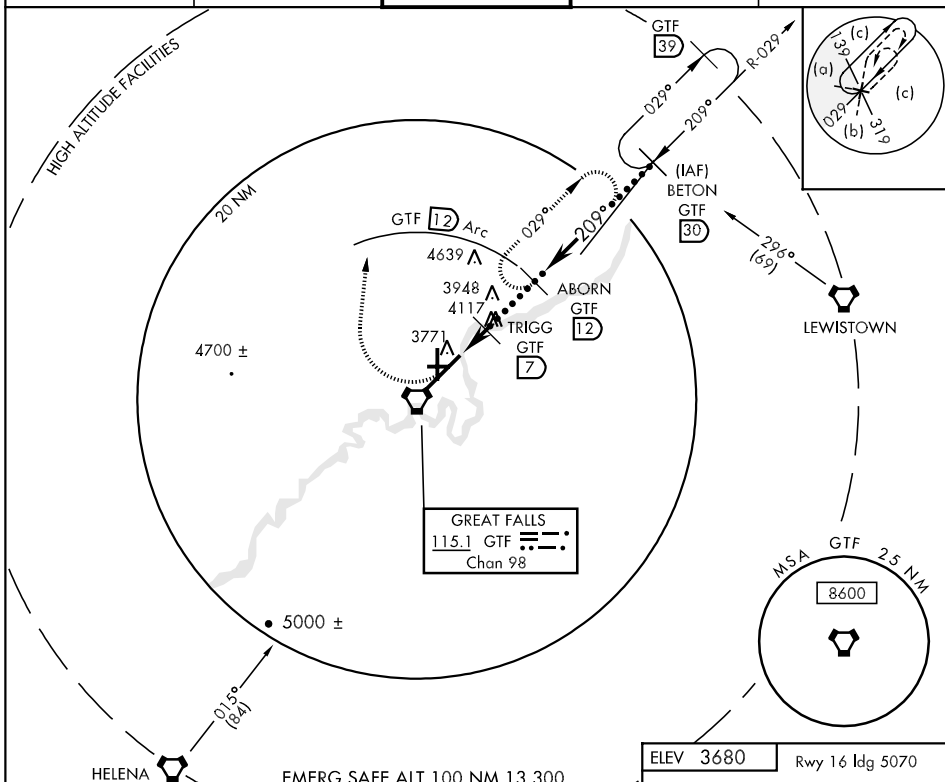
ATIS
126.6 269.0

GREAT FALLS APP CON
128.6 259.1

GREAT FALLS TOWER
118.7 282.2

GND CON
121.7 348.6

CLNC DEL
121.7 348.6



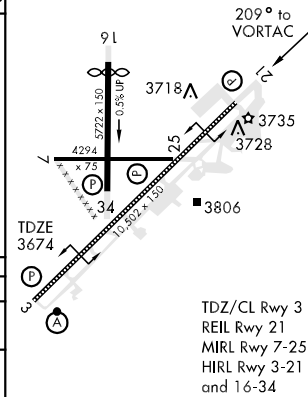
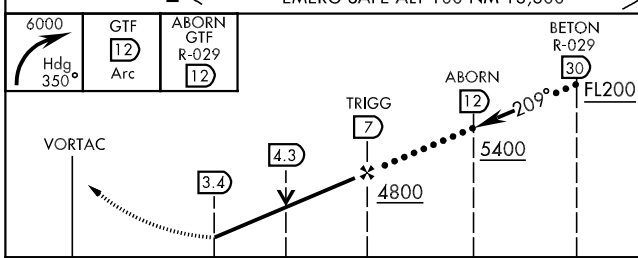
NW-1, 22 OCT 2009 to 19 NOV 2009

HELENA

EMERG SAFE ALT 100 NM 13,300

ELEV 3680

Rwy 16 Idg 5070



TDZ/CL Rwy 3
REIL Rwy 21
MIRL Rwy 7-25
HIRL Rwy 3-21
and 16-34

GREAT FALLS, MONTANA

47°29'N-111°22'W

GREAT FALLS INTL (KGTF)

09099

MISSED APPROACH: Climb to 5000 then climbing right turn to 8300 direct GTF VORTAC then via GTF VORTAC R-209 to UCBUN/GTF VORTAC 13.4 DME and hold.

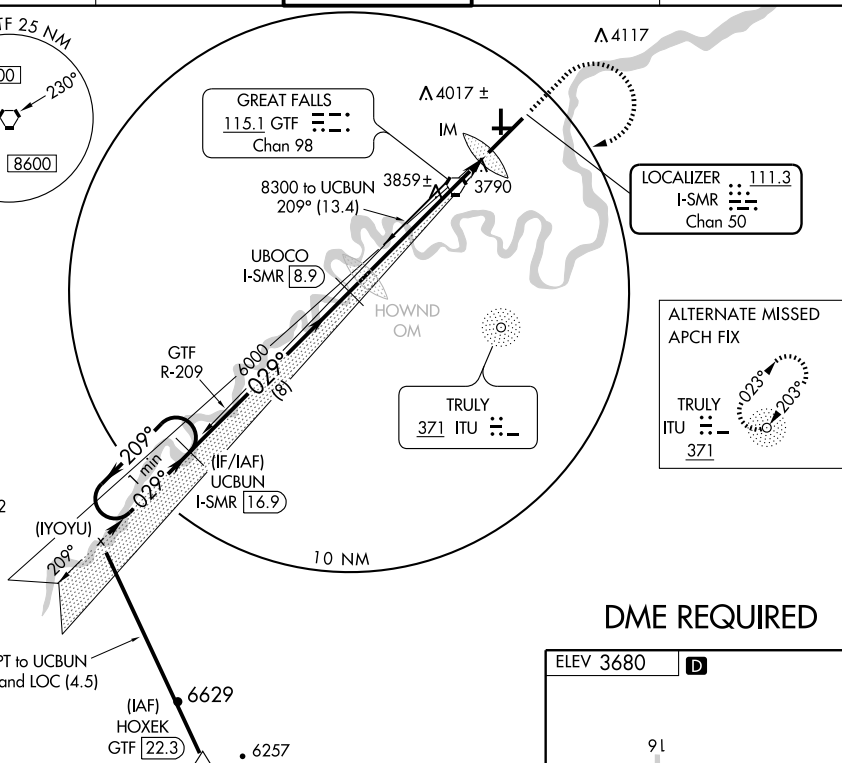
MSA GTF 25 NM

6100

070°

230°

8600



DME REQUIRED

One Minute Holding Pattern

UCBUN
I-SMP 169

5000

830

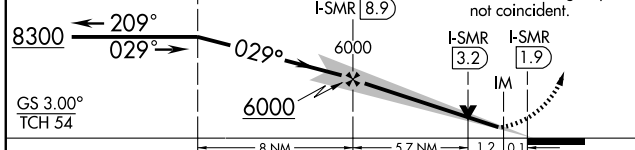
GTF

1151

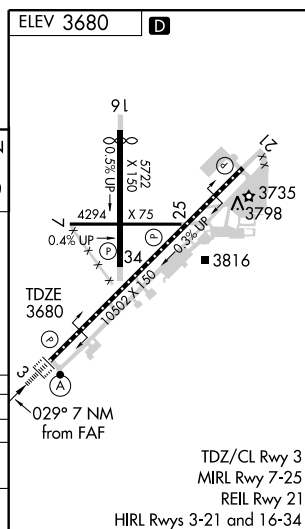
GTF
R-209

JCBUN
GTF
13.4

VGSI and ILS glidepath
not coincident.




CATEGORY	A	B	C	D
S-ILS 3	3880/18		200 (200-½)	
S-LOC 3	4160/24	480 (500-½)	4160/40 480 (500-¾)	4160/50 480 (500-1)
CIRCLING	4160-1	480 (500-1)	4160-1½ 480 (500-1½)	4240-2 560 (600-2)



MISSED APPROACH: Climb to 5000 then climbing right turn to 8300 direct GTF VORTAC then via GTF VORTAC R-209 to UCBUN/GTF VORTAC 13.4 DME and hold.

MSA GTF 25 NM

GREAT FALLS
115.1 GTF 
Chan 98

8300 to UCBUN
209° (13.4)

UBOCC
I-SMR [8]

GTF
R-20

187

• 6142

(IYOYÚ

8300 NoPT to UCBUN
319° (8.5) and LOC (4.5)

6629

GTF 22.3 6257

Use I-SMR DME when on the localizer course.

One Minute Holding Pattern

UCBUN
I-SMP 169

500C

830

GTF

CT5

CBUN

8300 ← 209°

GS 3.00°
TCH 54

UBOCO
L-SMP 8 C

RA 96

VGSI and ILS glidepath
not coincident.

3680

CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

TDZ/CL Rwy 3

MIRL Rwy 7-25

RFII R_{wv} 21

HIRL Rwy 3-21 and 16-34

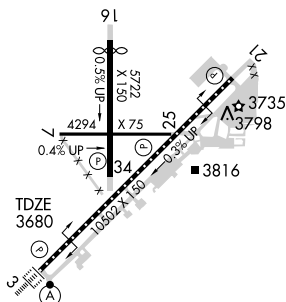
DME REQUIRED

ALTERNATE MISSED
APCH FIX

TRULY
ITU ÷
371


ELEV 3680

D



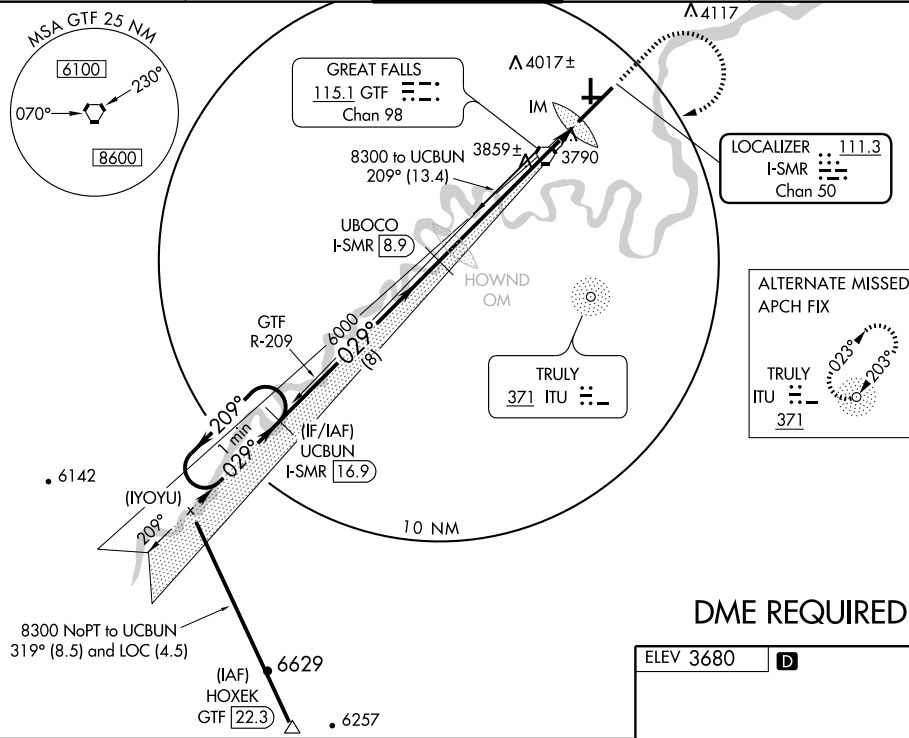
LOC/DME I-SMR	APP CRS	Rwy Idg	10502
111.3	029°	TDZE	3680
Chan 50		Apt Elev	3680

ALSF-2




MISSED APPROACH: Climb to 5000 then climbing right turn to 8300 direct GTF VORTAC then via GTF VORTAC R-209 to UCBUN/GTF VORTAC 13.4 DME and hold.

ATIS 126.6 269.0	GREAT FALLS APP CON 128.6 259.1	GREAT FALLS TOWER 118.7 282.2	GND CON 121.7 348.6	CLNC DEL 121.7 348.6
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ALTERNATE MISSED APCH FIX



TRULY
ITU 371

DME REQUIRED

Use I-SMR DME when on the localizer course.

One Minute Holding Pattern

UBUN I-SMR 16.9

8300 ← 209° → 029° → 6000

GS 3.00° TCH 54

8 NM

6.9 NM

860'

1099'

3680 MSL

UBOCO I-SMR 8.9

IM 3780

GTF 115.1

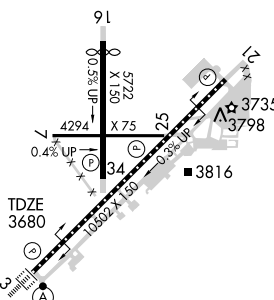
GTF R-209

UCBUN GTF 13.4

VGSI and ILS glidepath not coincident.

CATEGORY	A	B	C	D
S-ILS 3		CAT IIIa	RVR 07	
S-ILS 3		CAT IIIb	RVR 06	
S-ILS 3		CAT IIIc	NA	

ELEV 3680



TDZ 3680

TDZ/CL Rwy 3

MIRL Rwy 7-25

REIL Rwy 21

HIRL Rwy 3-21 and 16-34

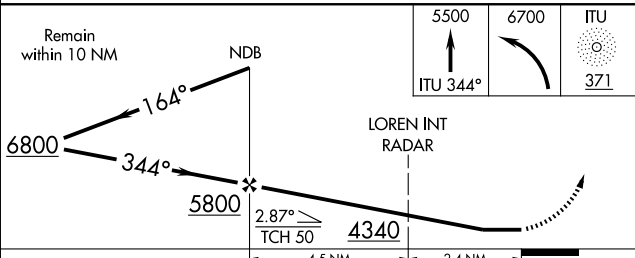
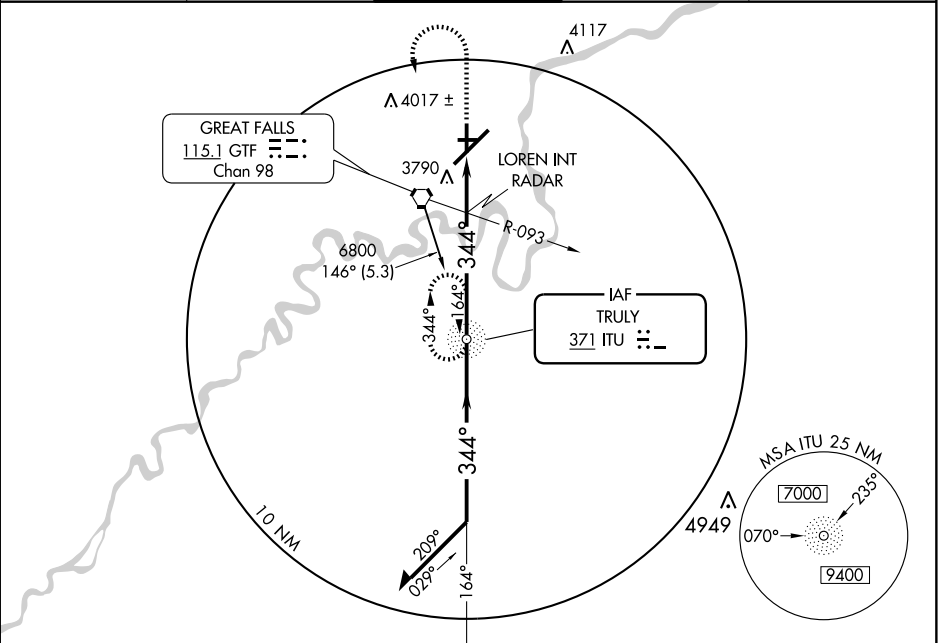
CATEGORY III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

▼

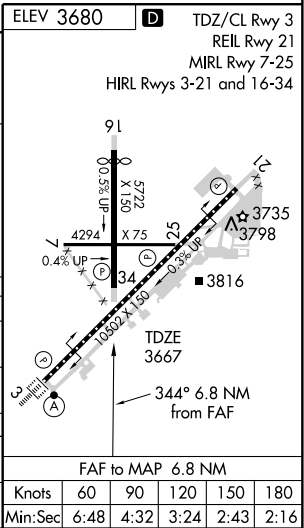
▲

MISSED APPROACH: Climb to 5500 via ITU NDB 344° bearing, then left turn to 6700 direct ITU NDB and hold.

ATIS 126.6 269.0	GREAT FALLS APP CON 128.6 259.1	GREAT FALLS TOWER 118.7 282.2	GND CON 121.7 348.6	CLNC DEL 121.7 348.6
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CATEGORY	A	B	C	D
S-34	4340-1	673 (700-1)	4340-2 673 (700-2)	4340-2¼ 673 (700-2¼)
CIRCLING	4340-1	660 (700-1)	4340-2 660 (700-2)	4340-2¼ 660 (700-2¼)
LOREN INT/RADAR MINIMUMS				
S-34	4120-1	453 (500-1)	4120-1¼ 453 (500-1¼)	4120-1½ 453 (500-1½)
CIRCLING	4120-1 440 (500-1)	4140-1 460 (500-1)	4140-1½ 460 (500-1½)	4240-2 560 (600-2)



RNAV (GPS) RWY 3
GREAT FALLS INTL (GTF)

WAAS CH 70602 W03A	APP CRS 029°	Rwy Idg 10502 TDZE 3680 Apt Elev 3680
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▼

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 42°C (107°F).

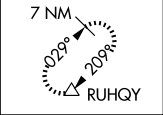
ALSF-2

MISSED APPROACH: Climb to 6200 direct HULJY and via 029° track to RUHQY and hold.

ATIS 126.6 269.0	GREAT FALLS APP CON 128.6 259.1	GREAT FALLS TOWER 118.7 282.2	GND CON 121.7 348.6	CLNC DEL 121.7 348.6
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Procedure NA for arrivals at GTF VORTAC via V536 northbound and V120 eastbound.

MISSED APCH FIX



HULJY

4117

Δ 4017±

RW03

8000 to UCBUN
209° (13.4)

3859±
3791
GREAT FALLS
GTF

(FAF)
UBOCO

(IAF)
GUGYI

8000 NoPT
11.9°
(7.5)

(IF/IAF)
UCBUN

8000 NoPT
209°
(18)

(IAF)
ETIJO

(IAF)
WOKEN

8000 NoPT
024° (24.3)

MSA RW03 2.5 NM

8500

VGSI and RNAV glidepath not coincident

7 NM
Holding Pattern

UCBUN

UBOCO

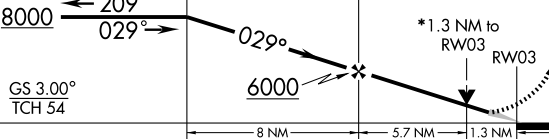
6200

HULJY

029° track

RUHQY

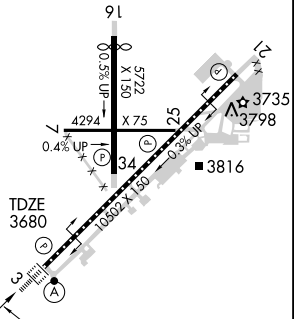
* LNAV only



CATEGORY	A	B	C	D
LPV DA	3930/24 250 (300-½)			
LNAV/VNAV DA	4067/40 387 (400-¾)			
LNAV MDA	4160/24 480 (500-½)		4160/40 480 (500-¾)	4160/50 480 (500-1)
CIRCLING	4160-1 480 (500-1)		4160-1½ 480 (500-1½)	4240-2 560 (600-2)

ELEV 3680

D



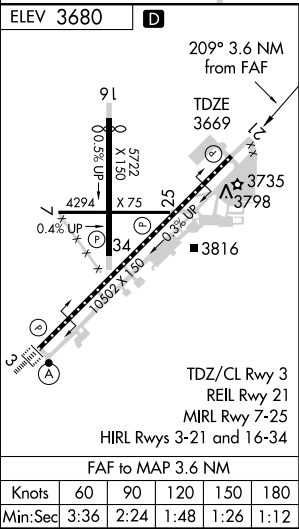
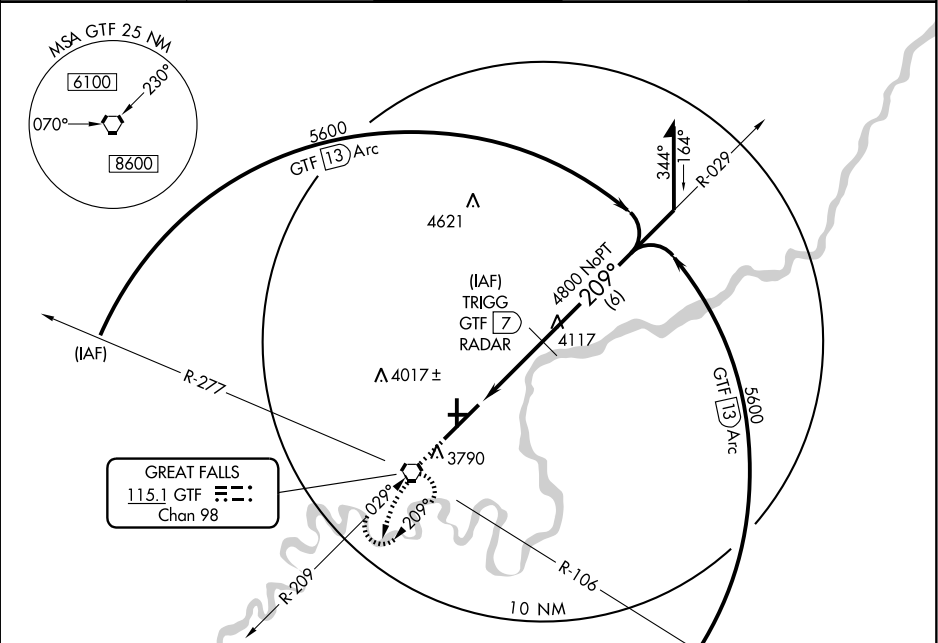
TDZ/CL Rwy 3
REIL Rwy 21
MIRL Rwy 7-25
HIRL Rws 3-21 and 16-34

VORTAC GTF	APP CRS	Rwy Idg	10502
115.1	209°	TDZE	3669
Chan 98		Apt Elev	3680

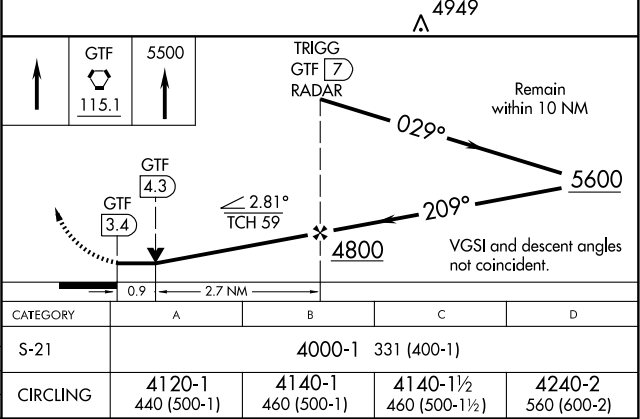
VOR RWY 21
GREAT FALLS INTL (GTF)

	MISSED APPROACH: Climb direct to GTF VORTAC continue climb to 5500 in GTF VORTAC holding pattern.
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ATIS 126.6 269.0	GREAT FALLS APP CON 128.6 259.1	GREAT FALLS TOWER 118.7 282.2	GND CON 121.7 348.6	CLNC DEL 121.7 348.6
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DME or RADAR REQUIRED



HAMEY ONE DEPARTURE (RNAV) (OBSTACLE)

SPOKANE DEP CON
124.9 298.95
SALT LAKE CITY CENTER
133.4 285.4

TAKE-OFF MINIMUMS

Rwy 16: NA, Obstacles.

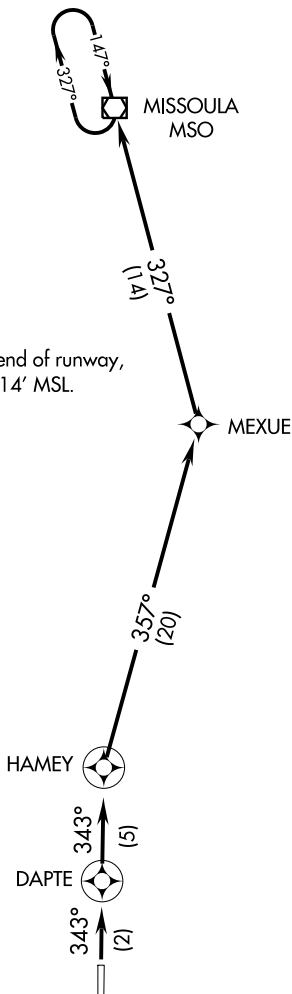
Rwy 34: Standard.

TAKE-OFF OBSTACLES

Rwy 34: tree 1044' from departure end of runway,
258' right of centerline, 80' AGL/3714' MSL.

Rwy 16: NA, Obstacles.

NOTE: 1. GPS Required.
2. RNAV 1



NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 16: Not authorized, Obstacles.

TAKE-OFF RWY 34: Climb to 9000 direct DAPTE WP, direct HAMEY WP, then via depicted route to MSO VOR/DME, Thence....

....all aircraft climb in MSO VOR/DME holding pattern (hold NW, RT, 147° inbound) to cross MSO VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

APP CRS
163°

Rwy Idg
TDZE
Apt Elev

N/A
N/A
3642

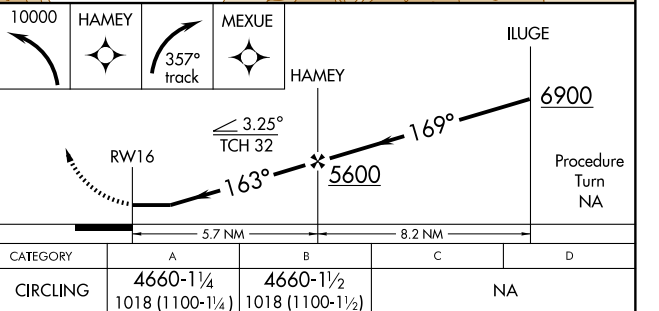
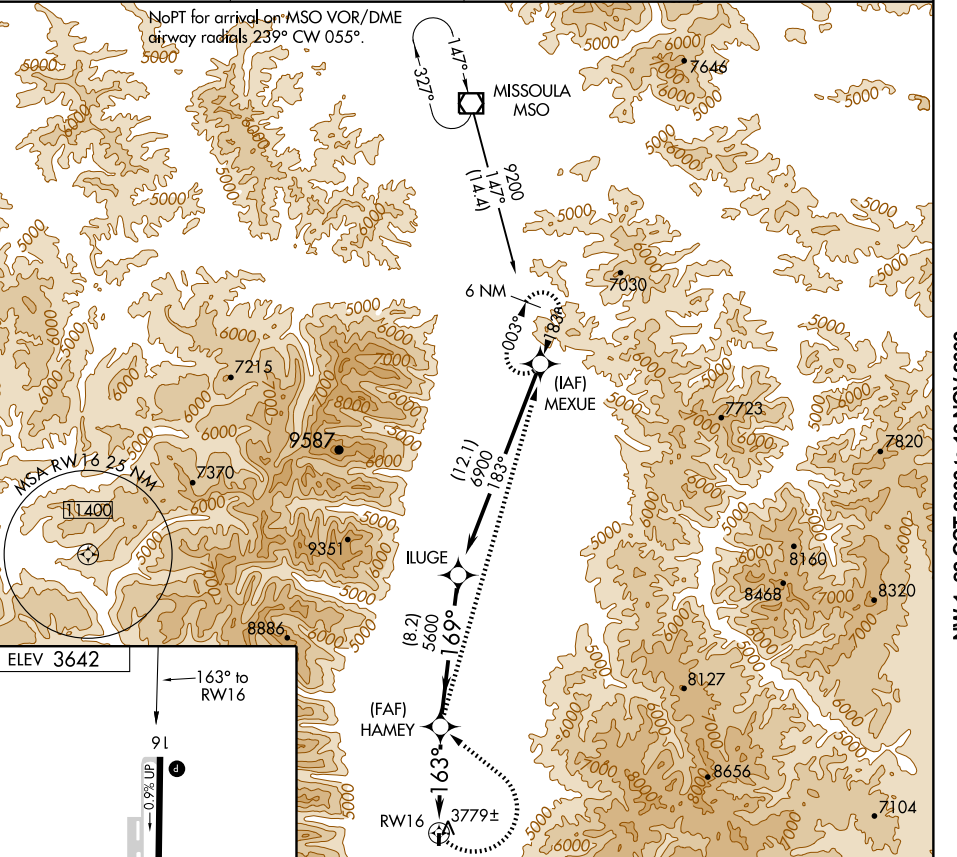
HAMILTON/ RAVALLI COUNTY (6S5)

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn to 10000 direct HAMEY WP and right turn via 357° track to MEXUE WP and hold.

NA Obtain local altimeter setting on CTAF; when not received, procedure NA. Procedure NA at night.

AWOS-A 119.825	SPOKANE APP CON* 124.9 298.95	SALT LAKE CITY CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0
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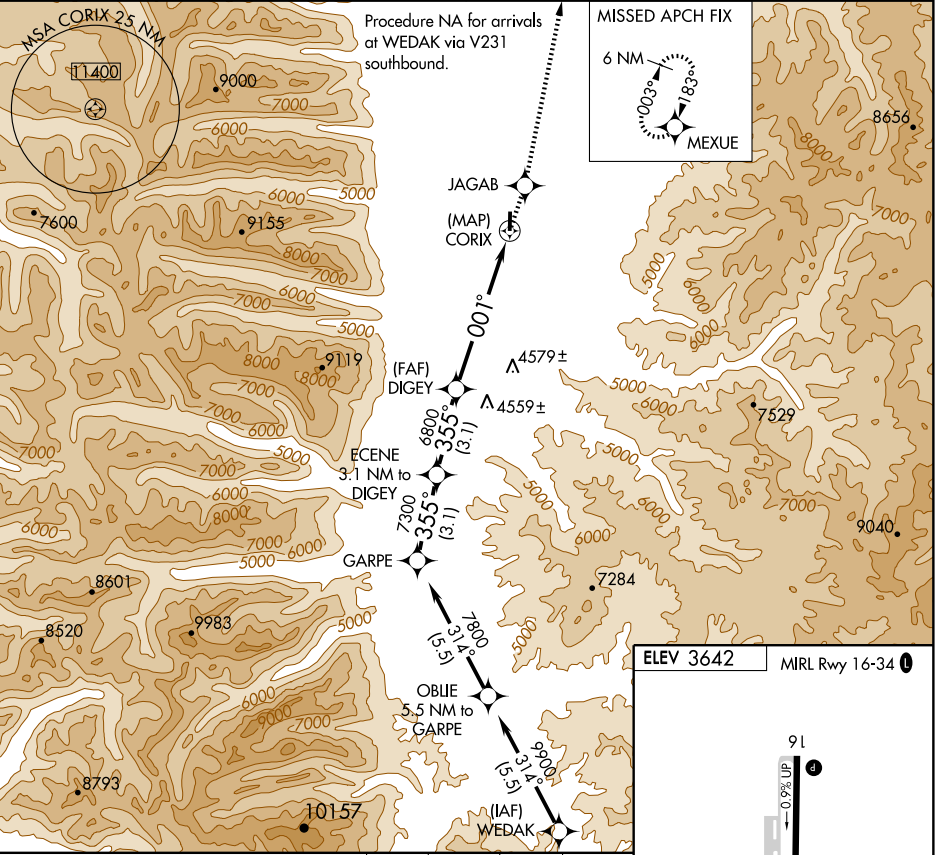
APP CRS	Rwy Idg	N/A
001°	TDZE	N/A
	Apt Elev	3642

RNAV (GPS)-B

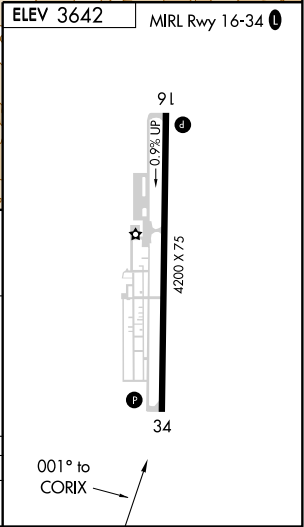
HAMILTON/ RAVALLI COUNTY (6S5)

<p>▼ GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.</p> <p>▲ NA Obtain local altimeter setting on CTAF; when not received, procedure NA. Procedure NA at night.</p>	<p>MISSED APPROACH: Climb to 10000 direct JAGAB WP and via 353° track to MEXUE WP and hold.</p>
---	---

AWOS-A 119.825	SPOKANE APP CON★ 124.9 298.95	SALT LAKE CITY CENTER 132.4 338.3	UNICOM 122.8 (CTAF) 0
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GARPE		ECENE 3.1 NM to DIGEY		10000 ↑	JAGAB ✧	353° track	MEXUE ✧
7800		7300		DIGEY			
355°				6800 *		007°	
Procedure Turn NA						CORIX	
3.1 NM		3.1 NM		6 NM			
CATEGORY	A		B		C		D
CIRCLING	4740-1¼ 1098 (1100-1¼)		4740-1½ 1098 (1100-1½)		NA		

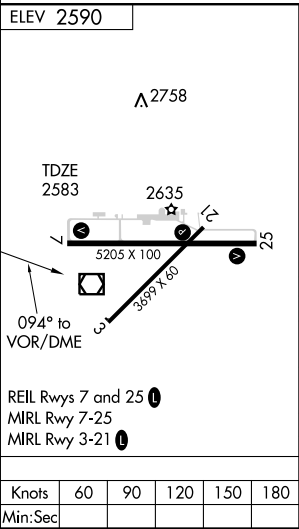
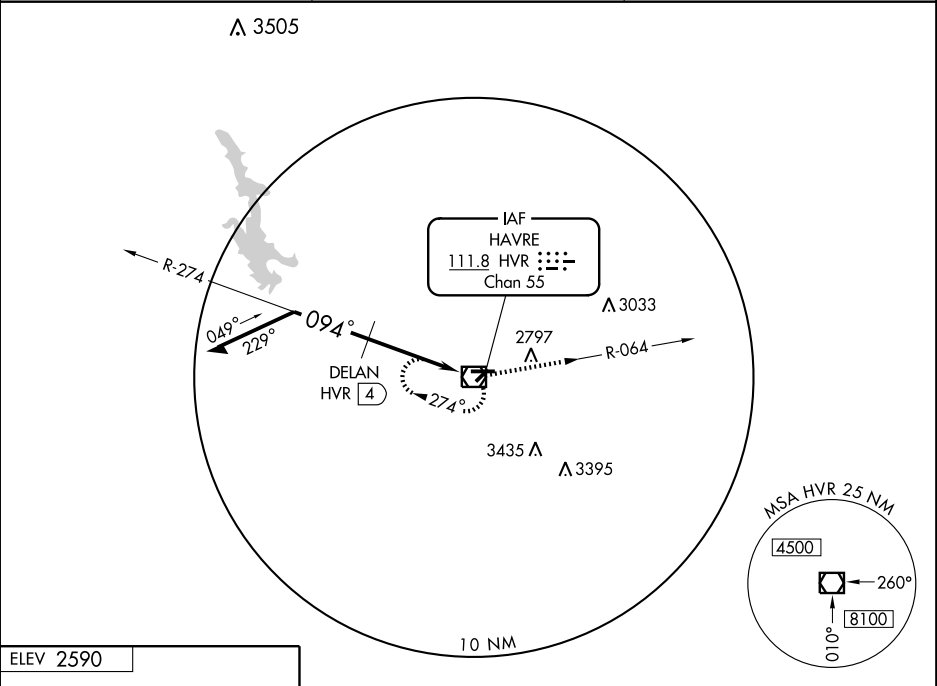


VOR/DME HVR 111.8 Chan 55	APP CRS 094°	Rwy Idg TDZE Apt Elev	5205 2583 2590
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VOR or GPS RWY 7
HAVRE CITY-COUNTY(HVR)

 Activate MIRL Rwy 31-21 and VASI Rwy 21-CTAF.	MISSED APPROACH: Climb to 4500 via R-064 then direct HVR VOR/DME and hold.
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ASOS 135.225	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF) 0
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Remain within 10 NM		VOR/DME		4500 HVR R-064	HVR 111.8
4500		274°		DELAN HVR (4)	
3280		094°		4 NM	
CATEGORY	A	B	C	D	
S-7	3280-1	697 (700-1)	3280-2 697 (700-2)	3280-2½ 697 (700-2½)	
CIRCLING	3280-1	692 (700-1)	3280-2 692 (700-2)	3280-2½ 692 (700-2½)	
DME MINIMUMS					
S-7	3020-1	437 (500-1)	3020-1½ 437 (500-1½)	3020-1½ 437 (500-1½)	
CIRCLING	3060-1	472 (500-1)	3060-1½ 472 (500-1½)	3140-2 552 (600-2)	

Knots	60	90	120	150	180
Min:Sec					

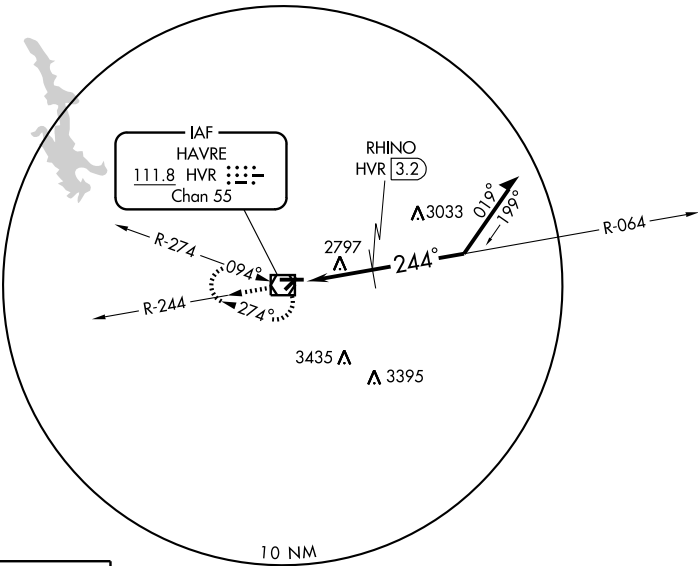
VOR/DME HVR 111.8 Chan 55	APP CRS 244°	Rwy Idg TDZE Apt Elev	5205 2584 2590
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VOR or GPS RWY 25
HAVRE CITY-COUNTY (HVR)

 	MISSED APPROACH: Climb to 4500 via HVR R-244 then direct HVR VOR/DME and hold.
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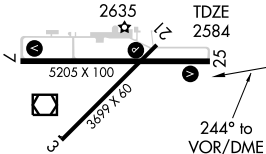
ASOS 135.225	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF) 
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Δ 3505

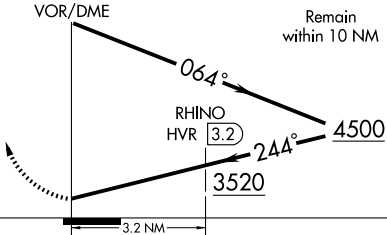
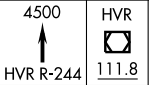


ELEV 2590

Δ 2758



REIL Rwy 7 and 25 
MIRL Rwy 7-25
MIRL Rwy 3-21 



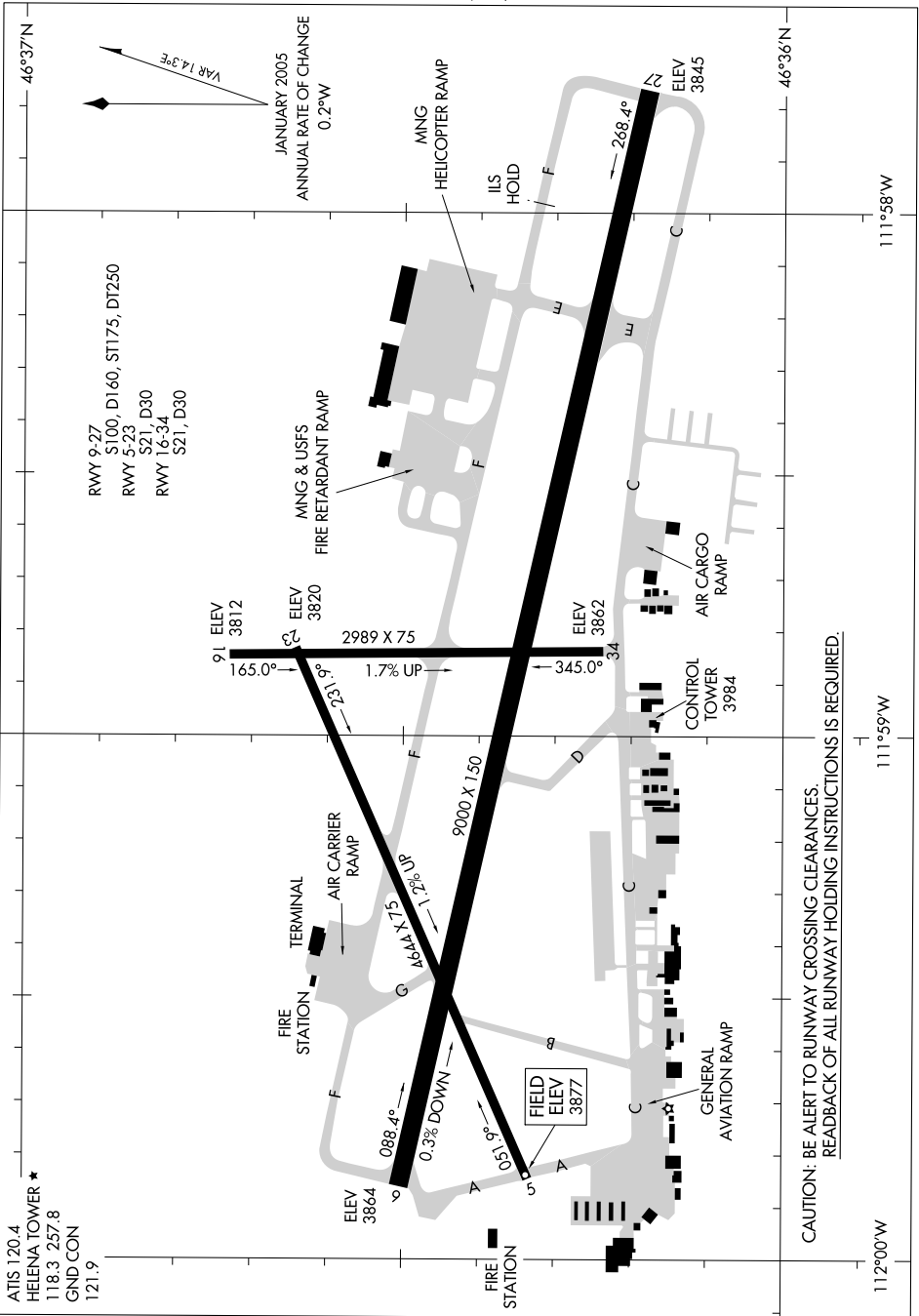
CATEGORY	A	B	C	D
S-25	3520-2 1/4	936 (1000-1 1/4)	3520-2 3/4 936 (1000-2 3/4)	3520-3 936 (1000-3)
CIRCLING	3520-1 1/4	932 (1000-1 1/4)	3520-2 3/4 932 (1000-2 3/4)	3520-3 932 (1000-3)
RHINO FIX MINIMUMS				
S-25	3060-1	476 (500-1)	3060-1 1/4 476 (500-1 1/4)	3060-1 1/2 476 (500-1 1/2)
CIRCLING	3060-1	472 (500-1)	3060-1 1/2 472 (500-1 1/2)	3140-2 552 (600-2)

Knots	60	90	120	150	180
Min:Sec					

AIRPORT DIAGRAM

AL-192 (FAA)

HELENA RGNL (HNLN)
HELENA, MONTANA

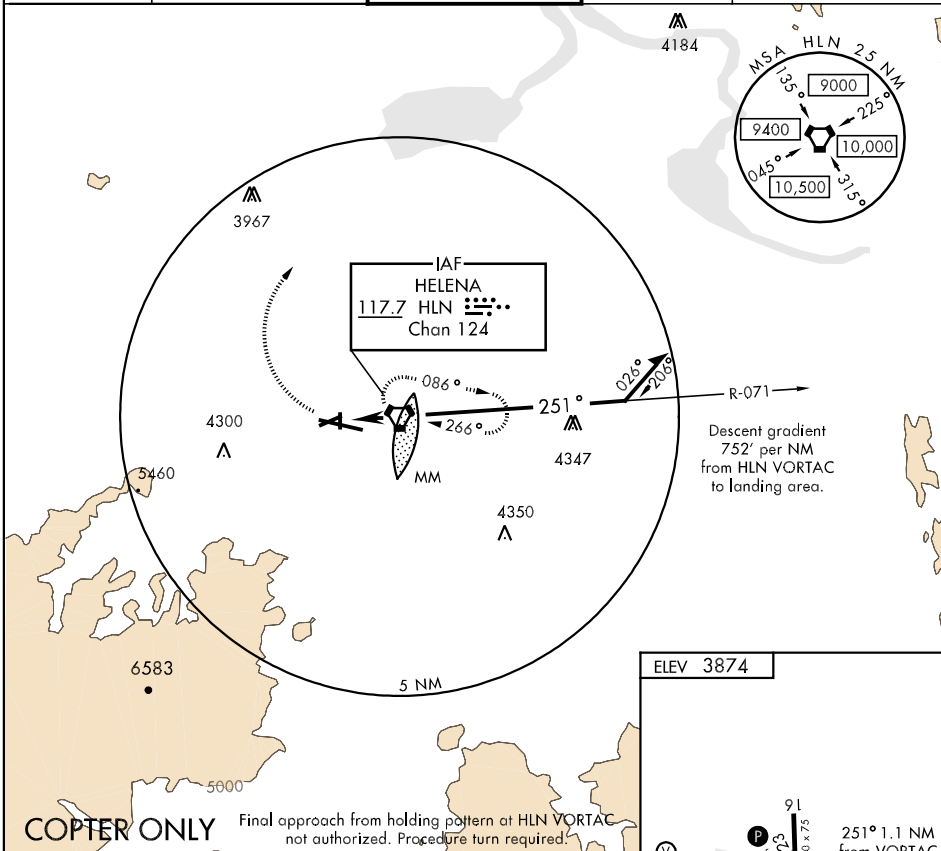


VORTAC HLN
117.7
Chan 124APCH CRS
251°Rwy Idg
TDZE
Arpt Elev 3874

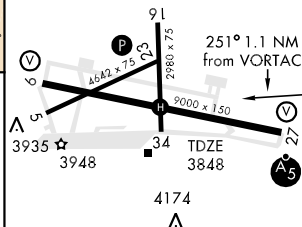
AL-192 [USA]

HELENA REGIONAL (KHLN)

NA when tower clsd.

MISSED APPROACH: Climbing right turn to
8000 direct HLN VORTAC and hold.ATIS ★
120.4HELENA APP CON
119.5 229.4HELENA TOWER ★
118.3 (CTAF) 0 257.8GND CON
121.9UNICOM
122.95

ELEV 3874

REIL Rwy 9
MIRL Rwy 5-23 and 16-34
HIRL Rwy 9-27

FAF to MAP 1.1 NM

Knots	45	60	75	90	105
Min:Sec	1:28	1:06	0:53	0:44	0:37

CATEGORY

COPTER

H-251°

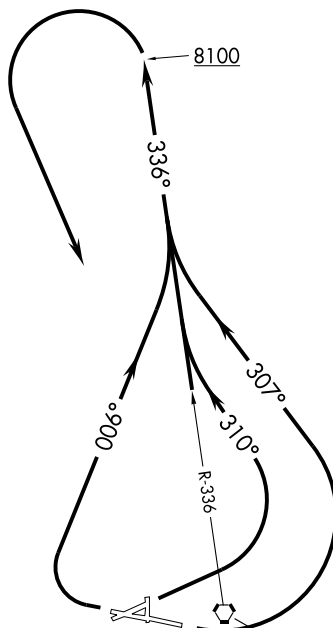
4260-½ 412 (400-½)

HELENA THREE DEPARTURE

SL-192 (FAA)

HELENA RGNL (HLN)
HELENA, MONTANA

HELENA TOWER ★
118.3 (CTAF) 257.8
HELENA DEP CON ★
119.5 229.4
SALT LAKE CENTER
133.4 285.4

TAKE-OFF MINIMUMS

Rwy 5: Standard with minimum climb of 250 feet per NM to 8100.
Rwy 9: Standard with minimum climb of 240 feet per NM to 8100.
Rwys 16, 23: NA- obstacles.
Rwy 27: Standard with minimum climb of 390 feet per NM to 8100.
Rwy 34: NA- ATC.

HELENA
117.7 HLN
Chan 124
N46° 36.41' - W111° 57.21'
L-13, H-1

TAKE-OFF OBSTACLE NOTES

Rwy 5: Ground beginning 5' from DER, 495' right of centerline, up to 3826' MSL.
Fence beginning 423' from DER, 331' right of centerline, up to 10' AGL/ 3832' MSL.
Rwy 27: Building 1593' from DER, 731' left of centerline, 58' AGL/ 6385' MSL.
Ground beginning 101' from DER, 346' left of centerline, up to 3871' MSL.
Tree 1567' from DER, 616' left of centerline, 47' AGL/ 3906' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 5: Climbing left turn heading 310° to intercept HLN VORTAC R-336 to 8100', then climbing left turn to 9000' via HLN VORTAC R-336 to HLN VORTAC.

TAKE-OFF RUNWAY 9: Climbing left turn heading 307° to intercept HLN VORTAC R-336 to 8100', then climbing left turn to 9000' via HLN VORTAC R-336 to HLN VORTAC.

TAKE-OFF RUNWAY 27: Climbing right turn heading 006° to intercept HLN VORTAC R-336 to 8100', then climbing left turn to 9000' via HLN VORTAC R-336 to HLN VORTAC.

LOC I-HLN <u>110.1</u>	APP CRS 267°	Rwy Idg TDZE Apt Elev	9000 3852 3877
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ILS or LOC Y RWY 27

HELENA RGNI (HLN)

- T** Circling NA for Cats. D and E south of Rwy 9-27. Inoperative table does not apply to S-LOC 27 Cats. A-B. For inoperative MALSR, increase S-ILS 27 all Cats. visibility to 2 miles, S-LOC 27 Cat. E visibility to 3 miles, FERRI fix minimums: S-LOC 27 Cat E visibility to 2½ miles. DME arc to final approach required for turbojet aircraft. Holding at HAU NDB authorized for Category A and B aircraft only.

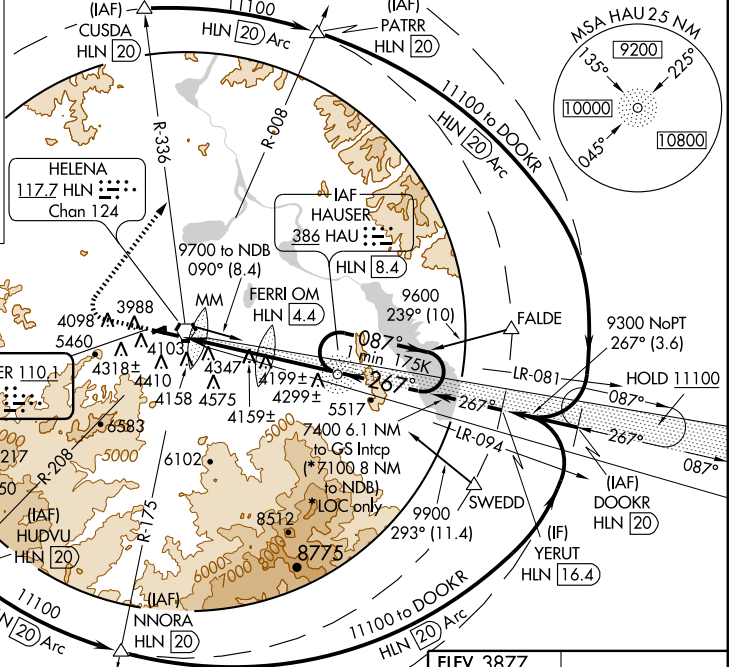
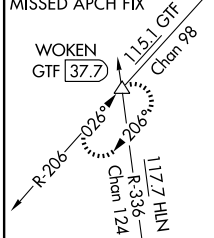
MALSR



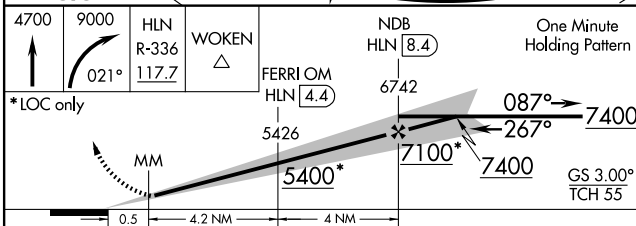
MISSED APPROACH: Climb to 4700 then climbing right turn to 9000 via heading 021° and HLN VORTAC R-336 to WOKEN INT and hold.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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MISSED APCH FIX

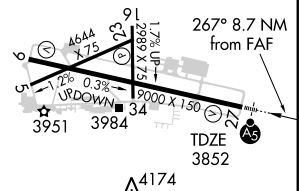


ADF or DME
REQUIRED



CATEGORY	A		B	C	D	E
S-ILS 27	4402-1½ 550 (600-1½)					
S-LOC 27	5400-1¼ 1548 (1600-1¼)	5400-1½ 1548 (1600-1½)	5400-2½ 1548 (1600-2½)			
CIRCLING	5400-1¼ 1523 (1600-1¼)	5400-1½ 1523 (1600-1½)	5400-3 1523 (1600-3)			
FERRI FIX MINIMUMS *						
S-LOC 27	4560-½ 708 (700-½)			4560-1½ 708 (700-1½)	4560-1¾ 708 (700-1¾)	4560-2 708 (700-2)
CIRCLING	4640-1 763 (800-1)			4740-2½ 863 (900-2½)	4740-2¾ 863 (900-2¾)	4840-3 963 (1000-3)

ELEV 3877



REIL Rwy 9 **L**
MIRL Rwy 5-23 and 16-34 **L**
HIRL Rwy 9-27 **L**

FAF to MAP 8.7 NM

Knots	60	90	120	150	180
Min:Sec	8:42	5:48	4:21	3:29	2:54

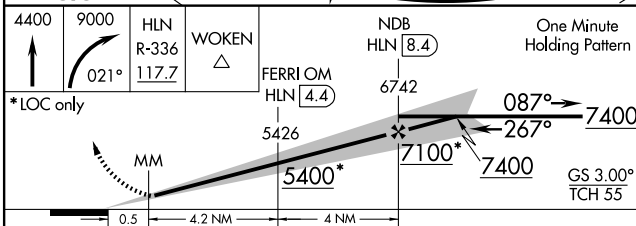
ILS or LOC Z RWY 27
HELENA RGNL (HLN)

HELENA RGNL (HLN)

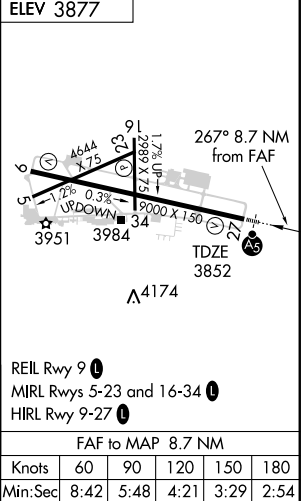
MALSR

MISSED APPROACH: Climb to 4400 then climbing right turn to 9000 via heading 021° and HLN VORTAC R-336 to WOKEN INT and hold.

ADF or DME
REQUIRED



CATEGORY	A		B	C	D	E
S-ILS 27	4052-½ 200 (200-½)					
S-LOC 27	5400-1¼ 1548 (1600-1¼)	5400-1½ 1548 (1600-1½)	5400-2½ 1548 (1600-2½)			
CIRCLING	5400-1¼ 1523 (1600-1¼)	5400-1½ 1523 (1600-1½)	5400-3 1523 (1600-3)			
FERRI FIX MINIMUMS *						
S-LOC 27	4420-½ 568 (600-½)		4420-1 568 (600-1)	4420-1¼ 568 (600-1¼)	4420-1½ 568 (600-1½)	
CIRCLING	4640-1 763 (800-1)	4640-1¼ 763 (800-¼)	4740-2½ 863 (900-2½)	4740-2¾ 863 (900-2¾)	4840-3 963 (1000-3)	



LOC I-HLN <u>110.1</u>	APP CRS 087°	Rwy Idg TDZE Apt Elev N/A N/A 3877
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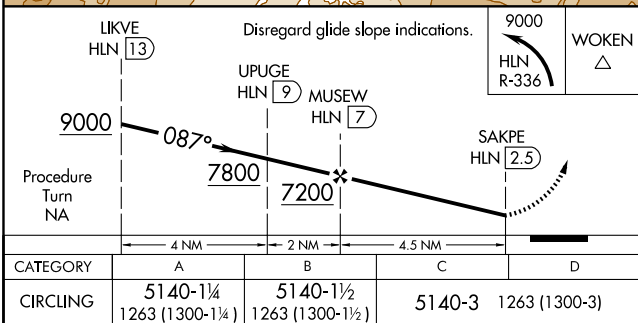
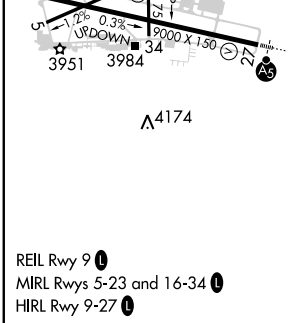
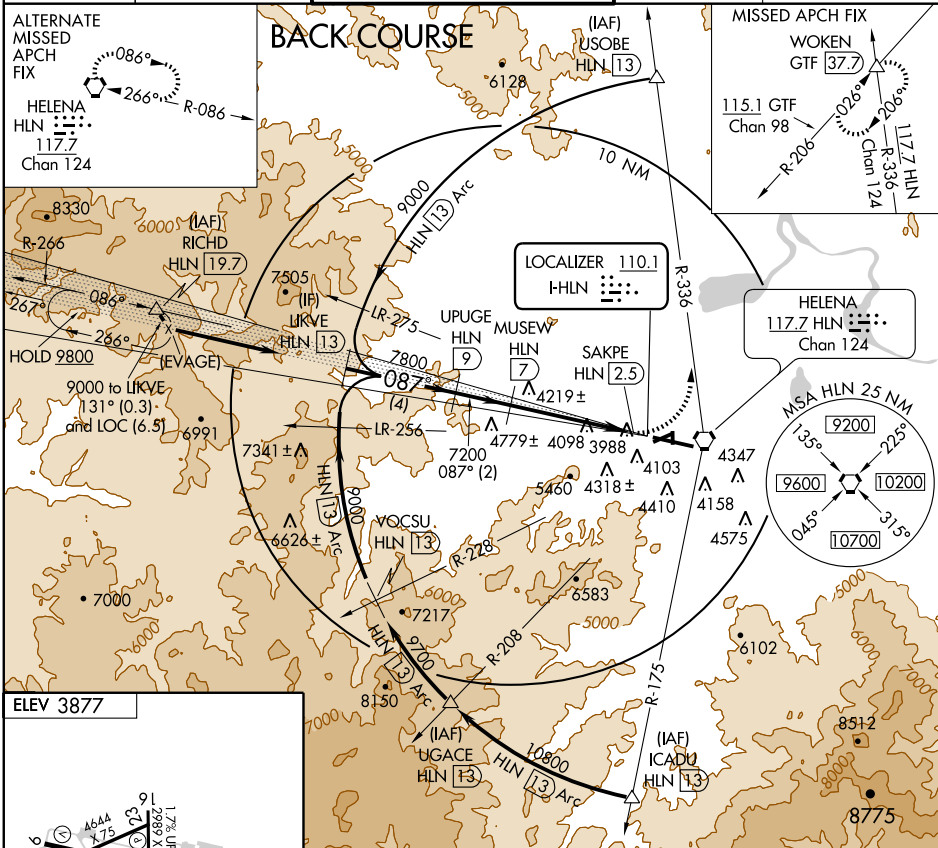
LOC/DME BC-C
HELENA RGNL (HLN)

HELENA RGNL (HLN)

T DME from HLN VORTAC, simultaneous reception of I-HLN
A and HLN DME required.
Circling NA south of Rwy 9-27 for Cat D.

MISSED APPROACH: Climbing left turn to 9000 via HLN VORTAC R-336 to WOKEN INT and hold.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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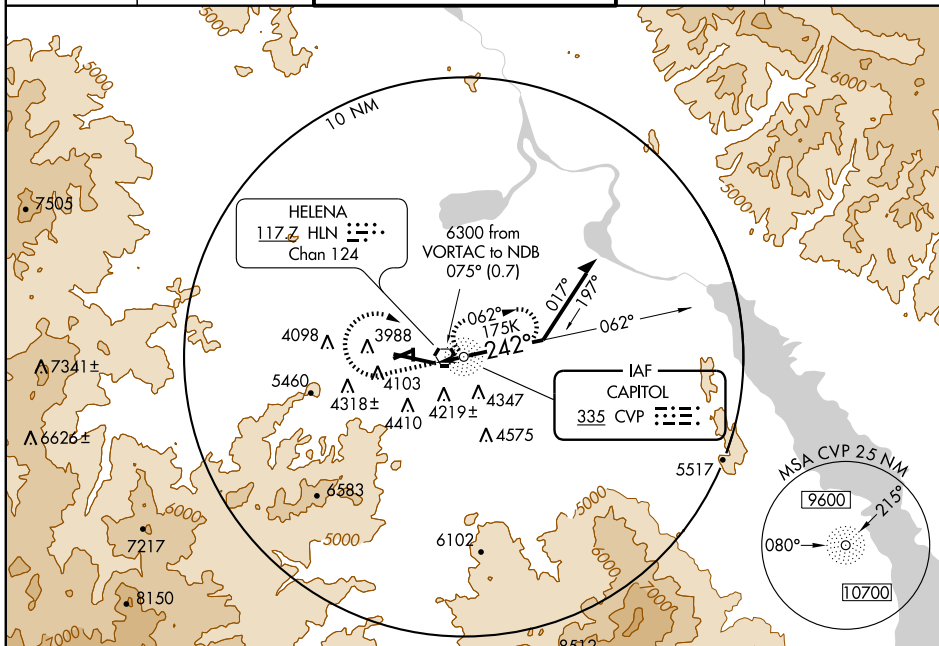
NDB CVP 335	APP CRS 242°	Rwy Idg TDZE Apt Elev N/A N/A 3877
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NDB-D
HELENA RGNL (HLN)



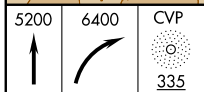
MISSED APPROACH: Climb to 5200, then climbing right turn to 6400 direct CVP NDB and hold.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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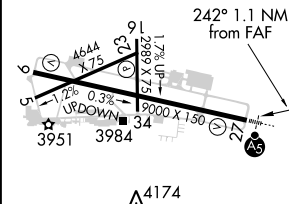
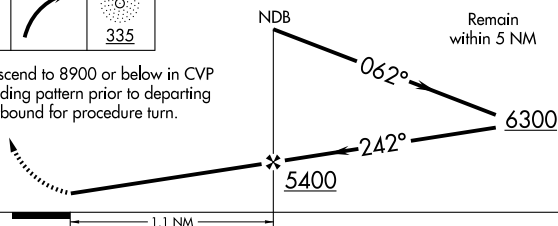


NW-1. 22 OCT 2009 to 19 NOV 2009

ELEV 3877



Descend to 8900 or below in CVP holding pattern prior to departing outbound for procedure turn.



REIL Rwy 9 **L**
MIRL Rwys 5-23 and 16-34 **L**
HIRL Rwy 9-27 **L**

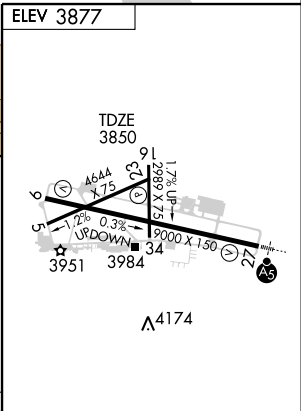
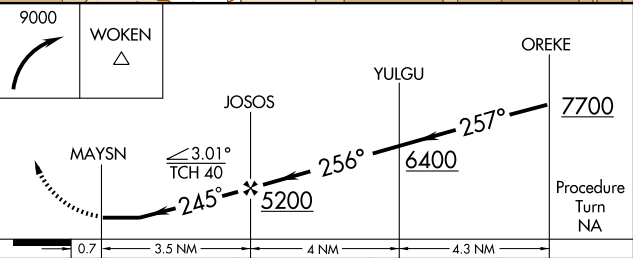
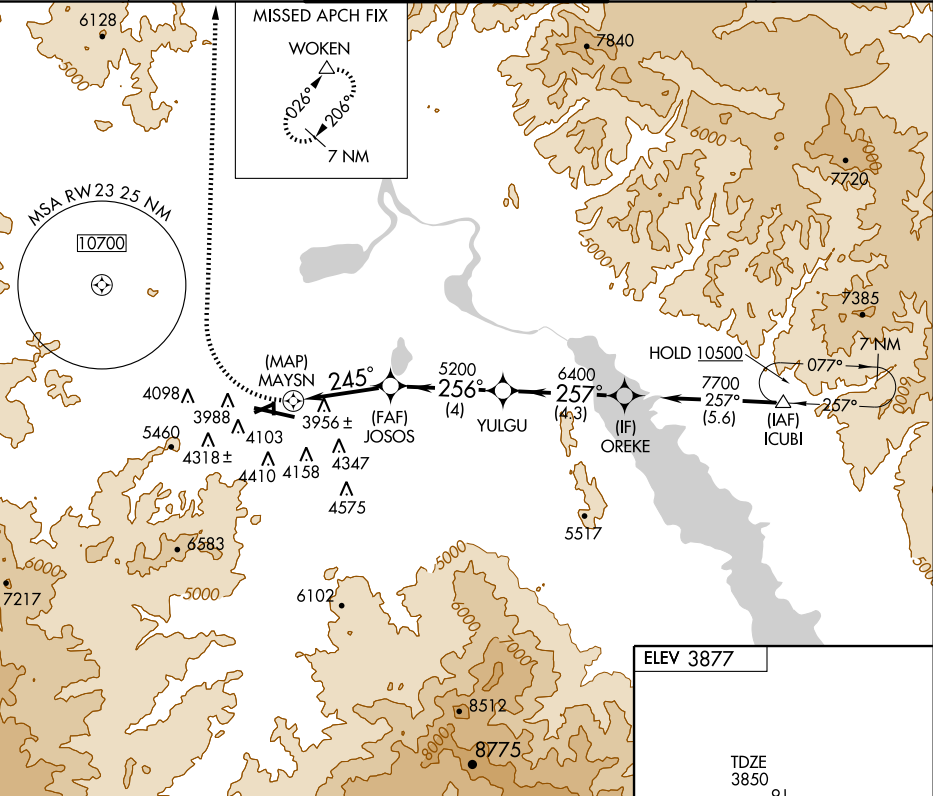
CATEGORY	A	B	C	D	FAF to MAP 1.1 NM					
CIRCLING	4980-1¼ 1103 (1200-1¼)		NA		Knots	60	90	120	150	180
					Min:Sec	1:06	0:44	0:33	0:26	0:22

APP CRS	Rwy Idg	4644
245°	TDZE	3850
	Apt Elev	3877

⚠ Circling NA for Cat D south of Rwy 9/27.
⚠ Visibility reduction by helicopters NA.
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing right turn to 9000 direct WOKEN and hold, continue climb-in-hold to 9000.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
LNAV MDA	4760-1¼ 910 (900-1¼)	4760-2¾ 910 (900-2¾)	4760-3 910 (900-3)	4760-3 910 (900-3)
CIRCLING	4760-1¼ 883 (900-1¼)	4760-2¾ 883 (900-2¾)	4760-3 883 (900-3)	4760-3 883 (900-3)

REIL Rwy 9 **1**
MIRL Rlys 5-23 and 16-34 **1**
HIRL Rwy 9-27 **1**

WAAS CH 69405 W27A	APP CRS 267°	Rwy Idg TDZE Apt Elev	9000 3852 3877
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RNAV (GPS) X RWY 27

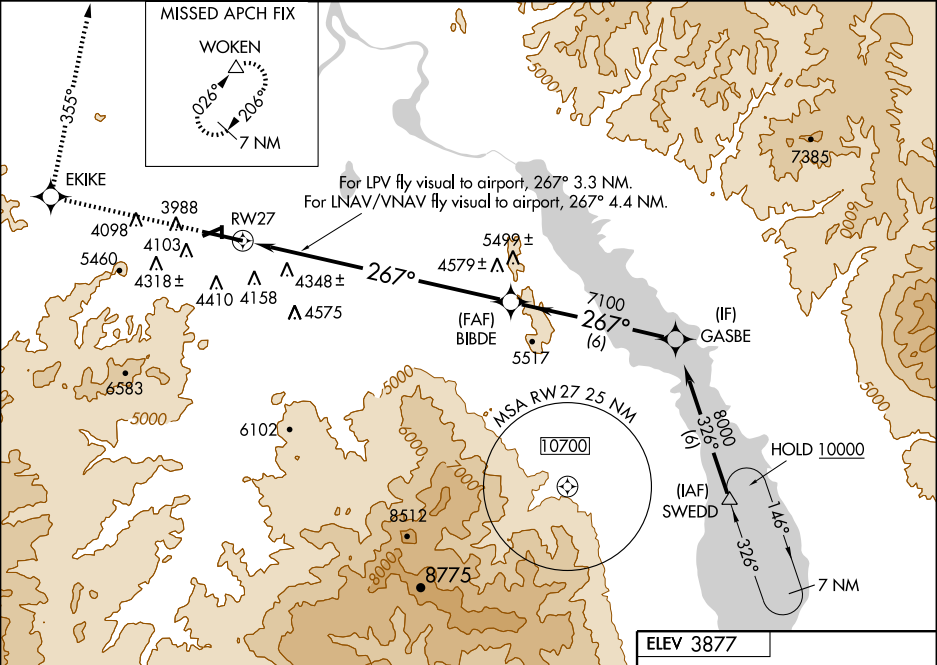
HELENA RGNL (HLN)

⚠ Circling NA for Cat D south of Rwy 9-27.
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 42°C (107°F). DME/DME RNP: 0.3 NA.
Inoperative table does not apply to LNAV Cats A-B.

MALSR

MISSED APPROACH: Climb to 9000
direct EKIKE and via 355° track
to WOKEN and hold.

ATIS 120.4	HELENA APP CON* 119.5 229.4	HELENA TOWER* 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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ELEV 3877

9000

355° track
WOKEN
△

Procedure Turn NA

LPV, fly visual, 267° 3.3 NM.
LNAV/VNAV, fly visual 267° 4.4 NM.

RW27
*4.8 NM to RW27
*LNAV only
BIBDE
7100
267°
8000
GS 3.00° TCH 55
GASBE

4.8 NM
5 NM
6 NM

CATEGORY	A	B	C	D
LPV DA	4965-2	1113 (1100-2)	4965-3	1113 (1100-3)
LNAV/VNAV DA	5289-2	1437 (1500-2)	5289-3	1437 (1500-3)
LNAV MDA	5440-1¼ 1588 (1600-1¼)	5440-1½ 1588 (1600-1½)	5440-2½ 1588 (1600-2½)	
CIRCLING	5440-1¼ 1563 (1600-1¼)	5440-1½ 1563 (1600-1½)	5440-3 1563 (1600-3)	

REIL Rwy 9

MIRL Rwy 5-23 and 16-34

HIRL Rwy 9-27

4644
475
2088 X 75
1.7% Up
30
34
1.2% Down
34
9000 X 150
3951
3984
TDZE 3852
△ 4174
267° to RW27

APP CRS	Rwy Idg
087°	TDZE
	3864
	Apt Elev
	3877

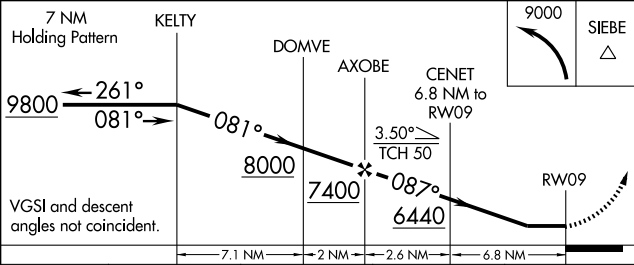
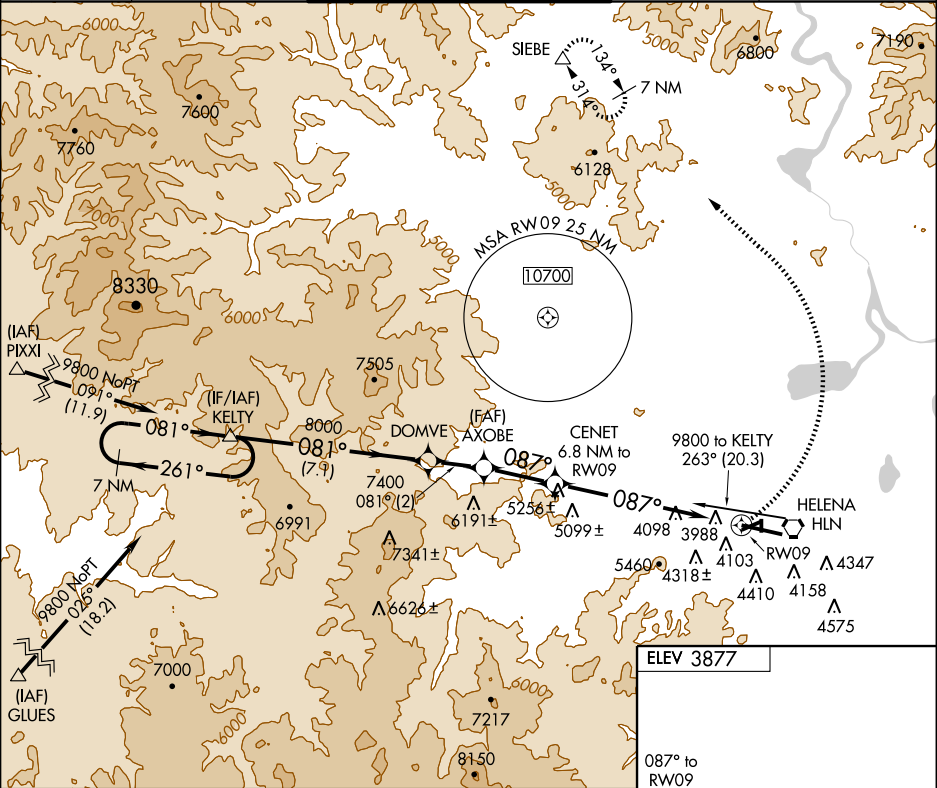
RNAV (GPS) Y RWY 9

HELENA RGNL (HLN)

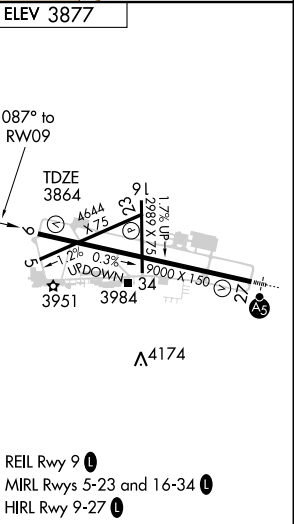
⚠ Circling NA for Cat D south of Rwy 9-27.
⚠ DME/DME RNP- 0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 9000 direct SIEBE and hold.

ATIS	HELENA APP CON ★	HELENA TOWER ★	GND CON	UNICOM
120.4	119.5 229.4	118.3 (CTAF) 257.8	121.9	122.95



CATEGORY	A	B	C	D
LNAV MDA	5440-1¼ 1576 (1600-1¼)	5440-1½ 1576 (1600-1½)	5440-3 1576 (1600-3)	
CIRCLING	5440-1¼ 1563 (1600-1¼)	5440-1½ 1563 (1600-1½)	5440-3 1563 (1600-3)	



REIL Rwy 9 **L**
MIRL Rwy 5-23 and 16-34 **L**
HIRL Rwy 9-27 **L**

SPECIAL AIRCRAFT AND AIRCREW
AUTHORIZATION REQUIRED

APP CRS 267°	Rwy Idg TDZE Apt Elev	9000 3852 3877
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RNAV (RNP) Z RWY 27

HELENA RGNL (HLN)

GPS required. For uncompensated Baro-VNAV systems, procedure NA below -22°C (-7°F) or above 41°C (105°F). *Missed approach requires minimum climb of 295 feet per NM to 7900. **Missed approach requires minimum climb of 290 feet per NM to 7300. ***Missed approach requires minimum climb of 405 feet per NM to 6300. For inoperative MALSR, increase RNP 0.18" visibility to 1, RNP 0.22" visibility to 1¼, and RNP 0.30" visibility to 1½. Inoperative table does not apply to RNP 0.30.



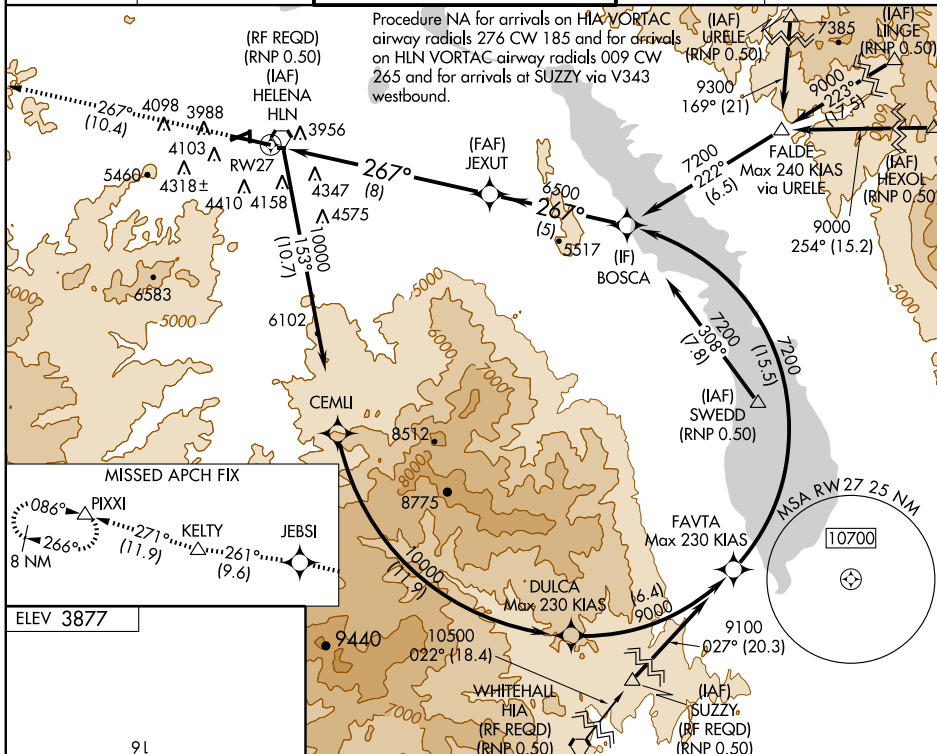
MALSR



MISSED APPROACH: Climb to 13000 via 267° track to JEBSI, and via 261° track to KELTY, and via 271° track to PIXXI and hold, continue climb-in-hold to 13000.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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Procedure NA for arrivals on HIA VORTAC
airway radials 276 CW 185 and for arrivals
on HLN VORTAC airway radials 009 CW
265 and for arrivals at SUZZY via V343
westbound.



NW-1. 22 OCT 2009 to 19 NOV 2009

Enroute chart for the JEXUT to BOSCA segment. The chart shows a track from JEXUT (6500) to BOSCA (7200) at 267°. A procedure turn NA is indicated. The chart also shows a segment from JEXUT to RW27 (6500) at 267°. The chart includes a table with categories A, B, C, and D, and a table with RNP values and DA values.

CATEGORY	A	B	C	D
RNP 0.18 DA*		4119-1/2	267 (300-1/2)	
RNP 0.22 DA**		4212-3/4	360 (400-3/4)	
RNP 0.30 DA***		4287-1	435 (500-1)	
RNP 0.30 DA		4863-4	1011 (1000-4)	

SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED


SIEBE TWO DEPARTURE

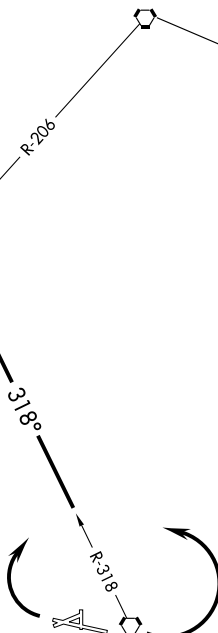
SL-192 (FAA)

HELENA RGNL (HLN)
HELENA, MONTANA

ATIS 120.4
GND CON
121.9
HELENA TOWER ★
118.3 (CTAF) 257.8
HELENA DEP CON ★
119.5 229.4


SIEBE
N46° 53.09'
W112° 09.08'
L-13

GREAT FALLS
115.1 GTF 
Chan 98



NOTE: Rwy 9, 1500-2 or standard
with minimum climb of
360 feet per NM to 6500 feet.

NOTE: Rwy 27, 2400-2 or standard
with minimum climb of
355 feet per NM to 7100 feet.

HELENA
117.7 HLN 
Chan 124
N46° 36.41' - W111° 57.21'
L-13, H-1

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climbing left turn, thence. . . .

TAKE-OFF RUNWAY 27: Climbing right turn, thence. . . .

. . . . Intercept HLN R-318 to SIEBE INT.

STAKK TWO DEPARTURE

ATIS 120.4
GND CON
121.9
HELENA TOWER ★
118.3 (CTAF) 257.8
HELENA DEP CON ★
119.5 229.4

SL-192 (FAA)

GREAT FALLS
115.1 GTF
Chan 98
N47° 27.00' - W111° 24.73'
L-13, H-1

LEWISTOWN
112.0 LWT
Chan 57
N47° 03.18' - W109° 36.37'
L-13, H-1

HELENA
117.7 HLN
Chan 124
N46° 36.41' - W111° 57.21'

(IRWEG)
N46° 40.59' - W111° 36.30'

(IRVIEW)
N46° 36.64' - W111° 35.45'

WAUTS
N46° 36.70' - W111° 27.28'
L-13

STAKK
N46° 33.00' - W111° 36.03'
10200

(IROHO)
N46° 29.12' - W111° 38.22'

SWEDD
N46° 26.98' - W111° 32.70'

LIVINGSTON
116.1 LVM
Chan 108

CONNS
N46° 16.11' - W111° 04.93'
L-13

BOZEMAN
112.4 BZN
Chan 71
N45° 47.03' - W111° 09.33'
L-13

NOTE: DME required.

NOTE: Take-off Rwy 9 requires a minimum climb of 390' per NM.

NOTE: Take-off Rwy 27 requires a minimum climb of 300' per NM.

NOTE: This SID requires a minimum climb of 300' per NM.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climbing left turn to intercept HLN R-087 to cross STAKK INT at or above 10,200'. Thence via transition.

TAKE-OFF RUNWAY 27: Climb on runway heading to 4500' then climbing right turn direct HLN VORTAC. Continue climb on HLN R-087 to cross STAKK INT at or above 10,200'. Thence via transition.

BOZEMAN TRANSITION (STAKK2.BZN): From over STAKK INT via 15 DME Arc and V365 to BZN VOR/DME.

CONNS TRANSITION (STAKK2.CONNS): From over STAKK INT via 15 DME Arc and V2 to CONNS INT.

GREAT FALLS TRANSITION (STAKK2.GTF): From over STAKK INT via 15 DME Arc and V21 to GTF VORTAC.

LEWISTOWN TRANSITION (STAKK2.LWT): From over STAKK INT via 15 DME Arc and V113 to LWT VORTAC.

WAUTS TRANSITION (STAKK2.WAUTS): From over STAKK INT via 15 DME Arc and V247 to WAUTS INT.

VORTAC HLN	APP CRS	Rwy Idg TDZE	N/A
117.7	266°	Apt Elev	N/A
Chan 124			3877

⚠

⚠

Circling NA for Cat D south of Rwy 9-27.

MISSED APPROACH: Climbing right turn to 9000 via HLN VORTAC R-336 to WOKEN INT and hold.

ATIS 120.4	HELENA APP CON★ 119.5 229.4	HELENA TOWER★ 118.3 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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ELEV 3877

9000

WOKEN

HLN R-336

VORTAC

Remain within 10 NM

086°

266°

8200

Procedure Turn: Descend to 10000 in HLN VORTAC holding pattern prior to departing outbound for procedure turn.

REIL Rwy 9

MIRL Rws 5-23 and 16-34

HIRL Rwy 9-27

4644

475

91

1.7% UP

2989 X 7.5

1.2% DOWN

0.3%

8000 X 150

3951

3984

25

4174

CATEGORY	A	B	C	D
CIRCLING	6700-1¼ 2823 (2900-1¼)	6700-1½ 2823 (2900-1½)	6700-3 2823 (2900-3)	

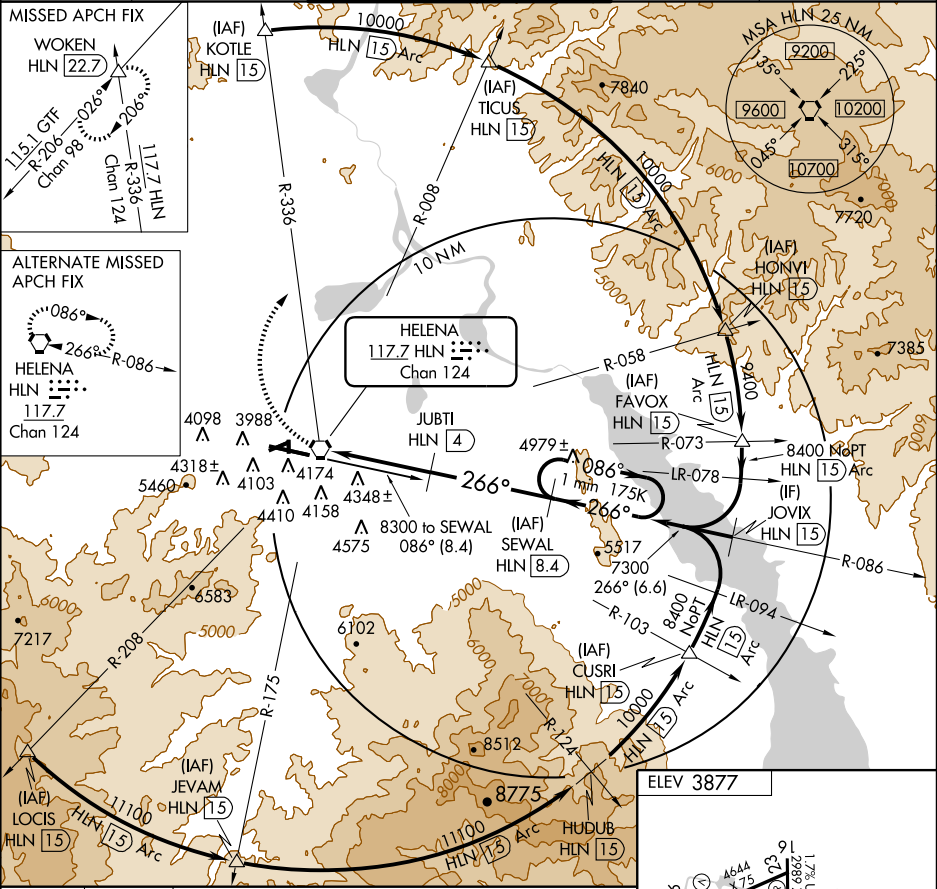
VOR/DME-B
HELENA RGNL (HLN)

VORTAC HLN 117.7 Chan 124	APP CRS 266°	Rwy Idg TDZE Apt Elev N/A N/A 3877
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⚠ Circling NA for Cat D south of Rwy 9-27.
⚠ DME Arc to final approach course required for turboprop aircraft.
Holding at SEWAL authorized for Cat A and B aircraft only.

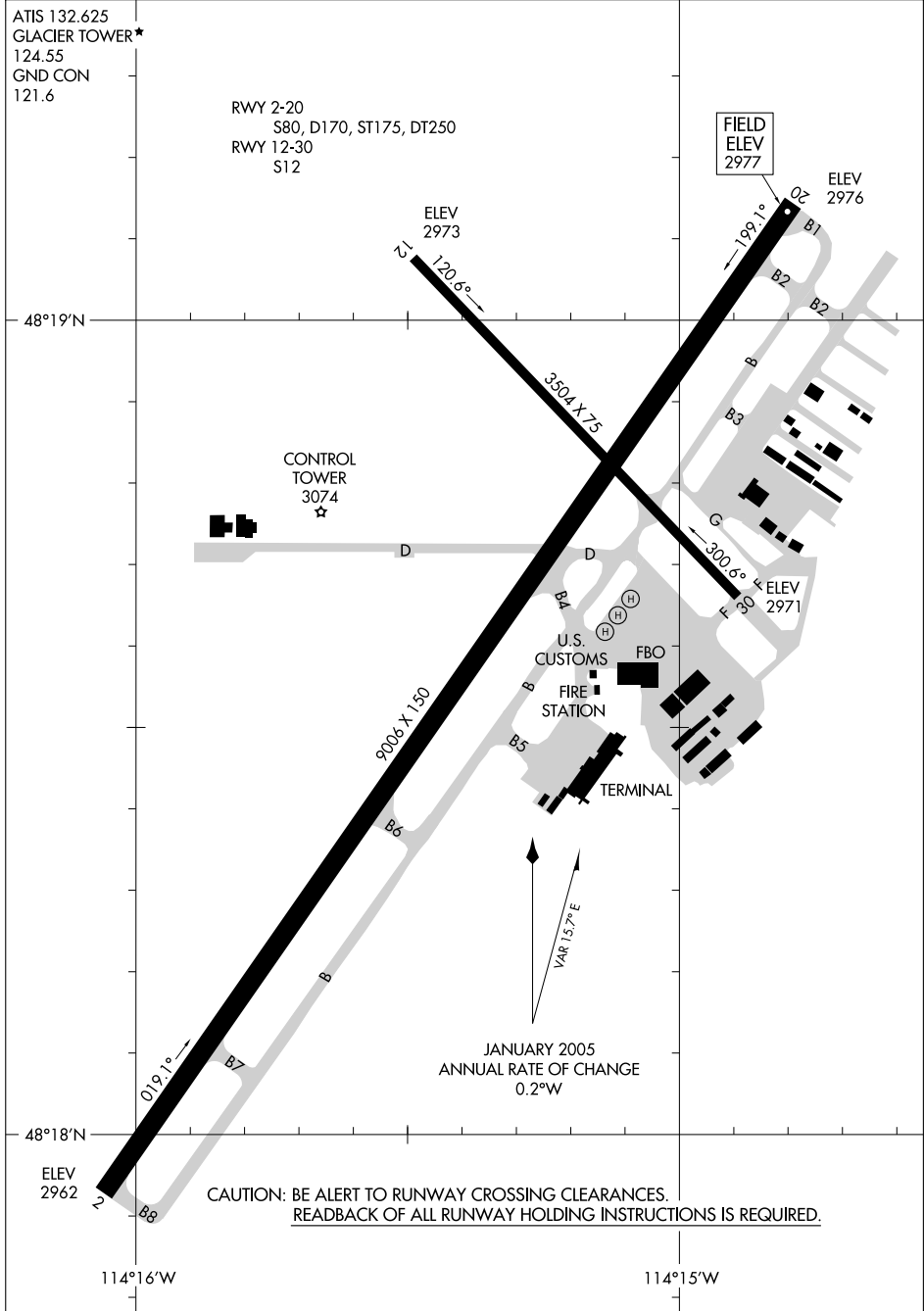
MISSED APPROACH: Climbing right turn to 9000
via HLN VORTAC R-336 to WOKEN INT/22.7 DME
and hold.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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AIRPORT DIAGRAM

AL-887 (FAA)

KALISPELL/GLACIER PARK INTL (GPI)
KALISPELL, MONTANA

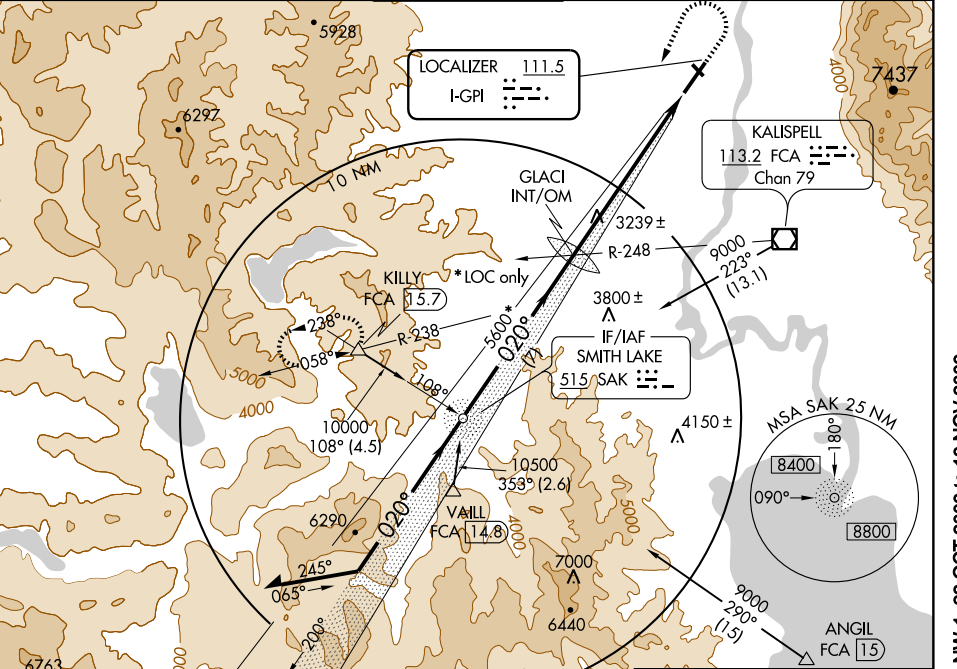
LOC I-GPI	APP CRS	Rwy Idg	9006
111.5	020°	TDZE	2966
		Apt Elev	2977

ADF required.

MALS R

MISSED APPROACH: Climb to 4100, then climbing left turn to 12000 via heading 190° and via FCA VOR/DME R-238 to KILLY INT/FCA 15.7 DME and hold, continue climb-in-hold to 12000.

ATIS 132.625	SALT LAKE CENTER 133.4 285.4	GLACIER TOWER * 124.55 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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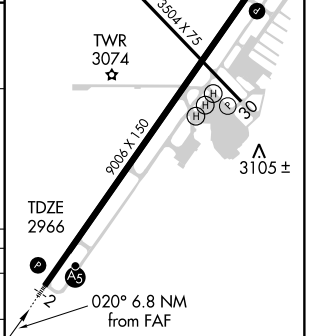
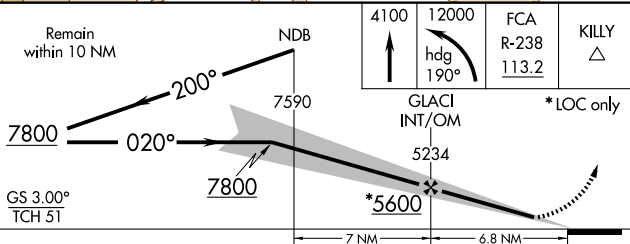
ADF REQUIRED

ELEV 2977

REIL Rwy 20 0

MIRL Rwy 12-30 0

HIRL Rwy 2-20 0



CATEGORY	A	B	C	D
S-ILS 2	3166-1/2 200 (200-1/2)			
S-LOC 2	3540-1/2 574 (600-1/2)	3540-1 574 (600-1)	3540-2 574 (600-1 1/4)	3540-2 574 (600-1 1/4)
CIRCLING	3540-1 563 (600-1)	3540-1 563 (600-1)	3540-2 663 (700-1 3/4)	3540-2 663 (700-2)

FAF to MAP 6.8 NM

Knots

60 90 120 150 180

Min:Sec

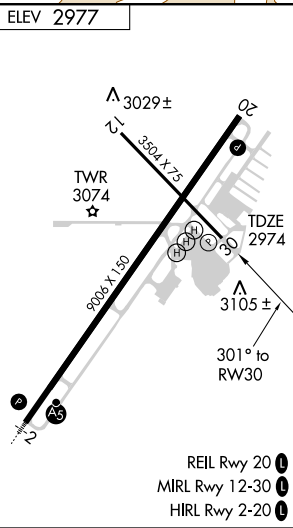
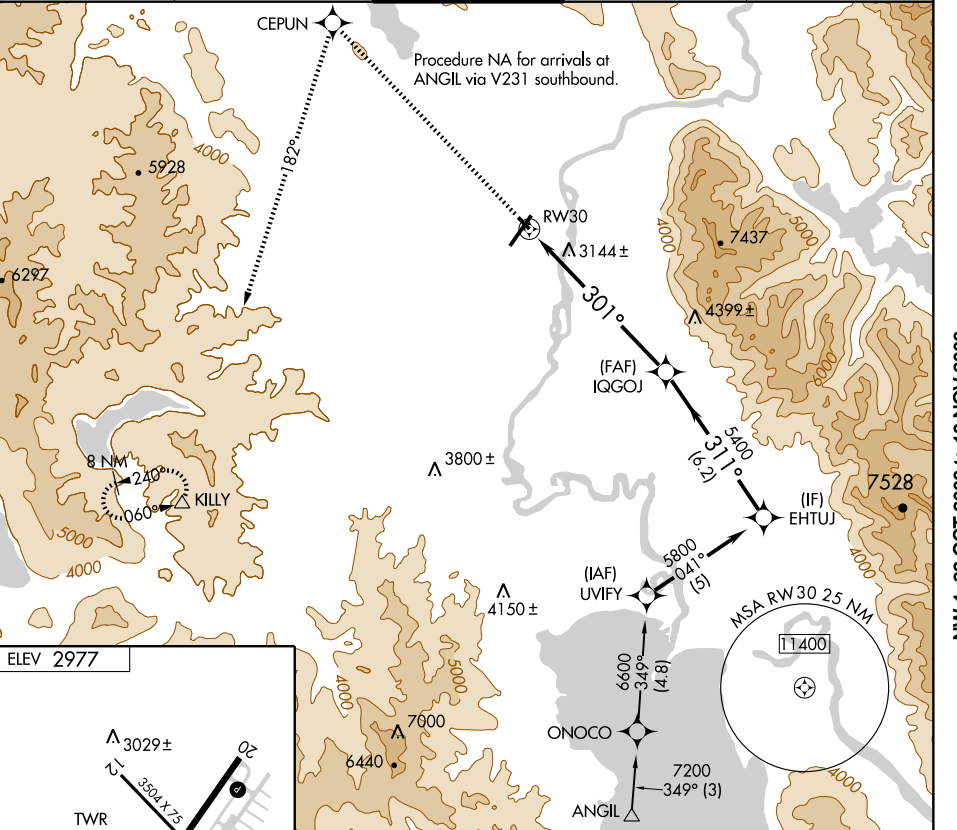
6:48 4:32 3:24 2:43 2:16

▼

Straight-in minimums NA at night.
DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 12000 direct CEPUN
and left turn via track 182° to KILLY and hold, continue
climb-in-hold to 12000.

ATIS 132.625	SALT LAKE CENTER 133.4 285.4	GLACIER TOWER★ 124.55 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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12000	CEPUN	182° track	KILLY	EHTUJ
↑	✧	↩	△	
VGSI and descent angles not coincident				
RW30		301°	5400	5800
↘		311°		
7 NM		6.2 NM	Procedure Turn NA	
CATEGORY	A	B	C	D
LNAV MDA	3460-1	486 (500-1)	3460-1¼ 486 (500-1¼)	3460-1½ 486 (500-1½)
CIRCLING	3520-1	543 (600-1)	3640-1¾ 663 (700-1¾)	3640-2 663 (700-2)

WAAS CH 70799 W02A	APP CRS 020°	Rwy Idg TDZE Apt Elev	9006 2966 2977
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RNAV (GPS) Z RWY 2

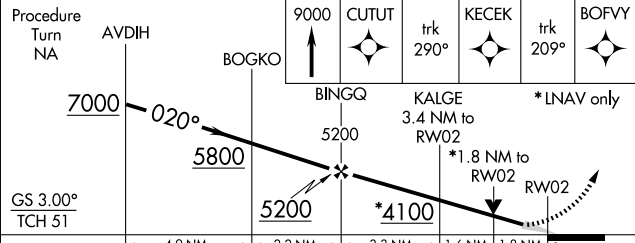
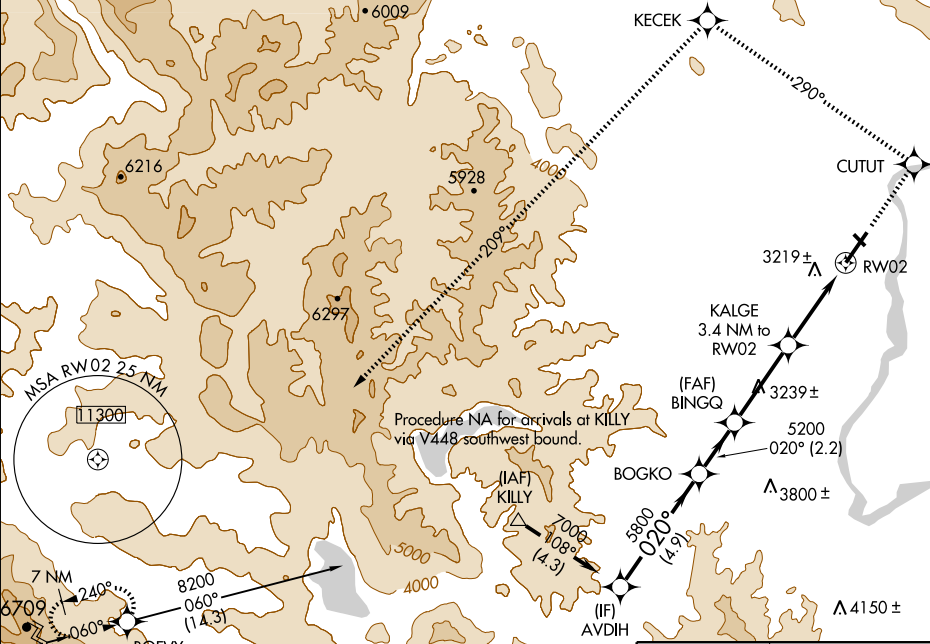
KAUSPELL/ GLACIER PARK INTL (GPI)

For inoperative MALS, increase LPV visibility to 1 ¼ mile.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (109°F). DME/DME RNP-0.3 NA.

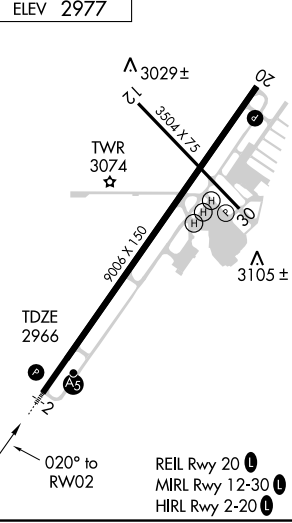
MALS

MISSED APPROACH: Climb to 9000 direct CUTUT and via track 290° to KECEK and via track 209° to BOFVY and hold.

ATIS 132.625	SALT LAKE CENTER 133.4 285.4	GLACIER TOWER★ 124.55 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	3297-¾	331 (400-¾)		
LNAV/VNAV DA	3502-1½	536 (600-1½)		
LNAV MDA	3600-½ 634 (700-½)	3600-1¼ 634 (700-1¼)	3600-1½ 634 (700-1½)	
CIRCLING	3600-1 623 (700-1)	3640-1¾ 663 (700-1¾)	3640-2 663 (700-2)	



APP CRS	Rwy Idg	9006
200°	TDZE	2977
	Apt Elev	2977

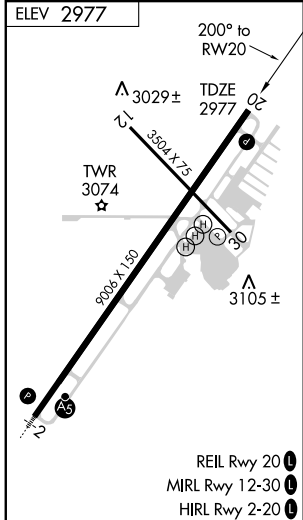
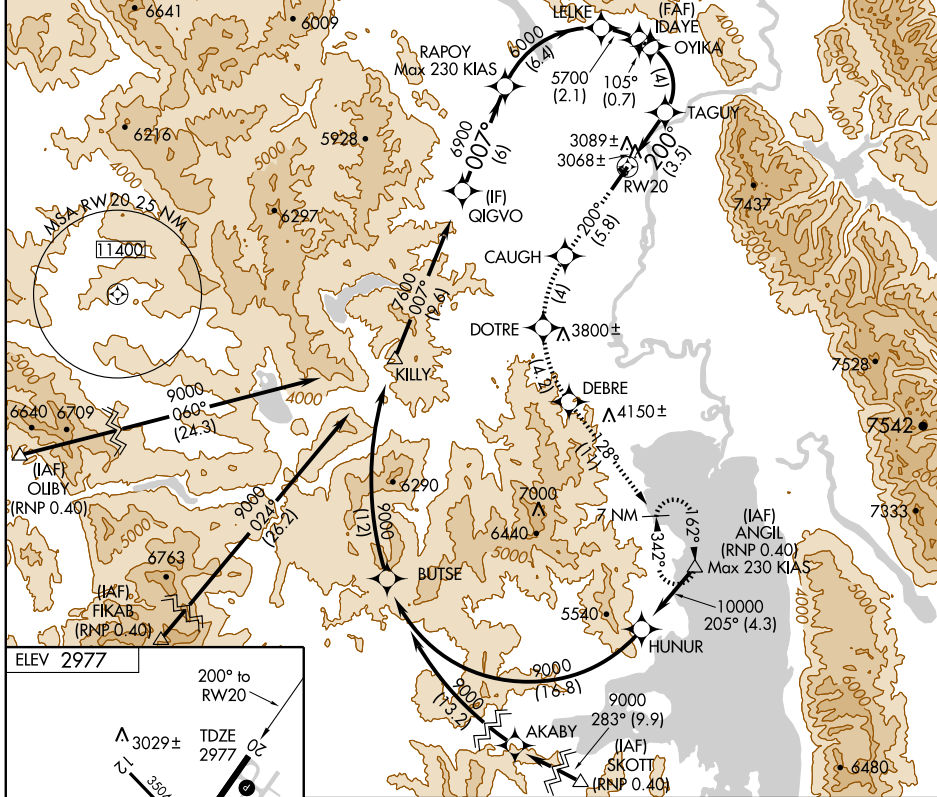
RNAV (RNP) RWY 20

KALISPELL/ GLACIER PARK INTL (GPI)

RF and GPS required. For uncompensated Baro-VNAV systems, procedure NA below -21°C (-5°F) or above 43°C (109°F).
***Missed approach requires minimum climb of 235 feet per NM to 6900.**
 Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 10000 via 200° track to CAUGH and via left turn to DOTRE, and via left turn to DEBRE, and via 128° track to ANGIL and hold, continue climb-in-hold to 10000.

ATIS 132.625	SALT LAKE CENTER 133.4 285.4	GLACIER TOWER* 124.55 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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10000 ↑ 200°	CAUGH	DOTRE	LELKE	RAPOY	QIGVO
7600					
Procedure Turn NA					
GP 3.00°					
TCH 45					
3.5 NM	4 NM	0.7 NM	2.1 NM	6.4 NM	6 NM
CATEGORY	A	B	C	D	
RNP 0.10 DA*		3344-1¼	367 (400-1¼)		
RNP 0.30 DA*		3446-1¾	469 (500-1¾)		
RNP 0.30 DA		3662-2½	685 (700-2½)		


SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED

APP CRS	Rwy Idg	9006
020°	TDZE	2966
	Apt Elev	2977

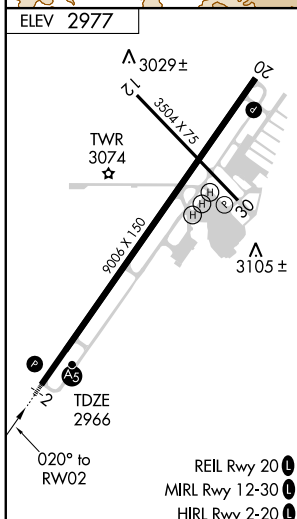
RNAV (RNP) Y RWY 2

KALISPELL/ GLACIER PARK INTL (GPI)

RF and GPS required.
***Missed approach requires minimum climb of 220 feet per NM to 6100.**
Missed approach requires RNP less than 1.0.
 For uncompensated Baro-VNAV systems, procedure NA below -21°C (-5°F) or above 43°C (109°F). For inoperative MALSR increase RNP 0.10 * visibility to 1¼ and RNP 0.30 visibility to 2.

MALSR

MISSED APPROACH: Climb to 10000 via left turn to JOGAD, and via left turn to ROYOG and via left turn to TONUY, and via 121° track to WILTO and via 129° track to ANGIL and hold.

ATIS 132.625	SALT LAKE CENTER 133.4 285.4	GLACIER TOWER * 124.55 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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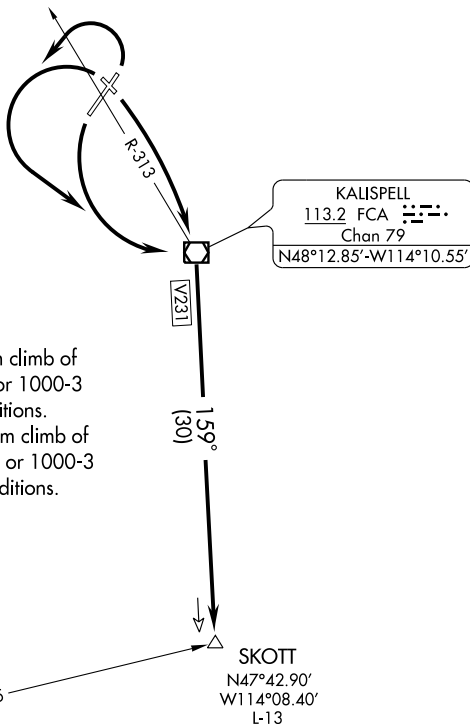
	JUNRU	WULEX	AVDIH	10000	JOGAD	ROYOG
Procedure	Turn NA	015°	020°	BINGQ		
GP 3.00°	7200	6200	5200			
TCH 51						
	3 NM	3.2 NM	7.1 NM	6.7 NM		
CATEGORY	A	B	C	D		
RNP 0.10 DA*	NA	3340-¾	374 (400-¾)			
RNP 0.30 DA	NA	3522-1½	556 (600-1½)			

SPECIAL AIRCRAFT AND AIRCREW AUTHORIZATION REQUIRED

SKOTT ONE DEPARTURE (OBSTACLE)

KALISPELL, MONTANA

SALT LAKE CENTER
133.4 285.4
GREAT FALLS RADIO
122.6
GLACIER TOWER★
124.55

TAKE-OFF MINIMUMS

Rwys 12, 20: Standard.

Rwy 2: Standard with minimum climb of
444' per NM to 7500 or 1000-3
for climb in visual conditions.

Rwy 30: Standard with minimum climb of
249' per NM to 5900 or 1000-3
for climb in visual conditions.

MULLAN PASS
117.8 MLP
Chan 125

SKOTT
N47°42.90'
W114°08.40'
L-13

TAKE-OFF OBSTACLE NOTES

Rwy 2: Multiple trees beginning 1468' from DER, 674' right of centerline, up to 91' AGL/3061' MSL.

Rwy 12: Multiple trees beginning 1426' from DER, 543' left of centerline, up to 129' AGL/3082' MSL.
Railroad 702' from DER, 317' left of centerline, 31' AGL/2997' MSL.

Road 544' from DER, 299' left of centerline, 22' AGL/2988' MSL.

Rwy 20: Multiple trees beginning 2742' from DER, 1140' left of centerline, up to 107' AGL/3169' MSL.

Rwy 30: Multiple trees beginning 1848' from DER, 722' left of centerline, up to 104' AGL/3067' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 2: Climbing left turn direct FCA VOR/DME, thence.... or, climb in visual conditions to cross Glacier Park Intl Airport southeast bound at or above 3800, then via FCA R-313 to FCA VOR/DME, thence....

TAKE-OFF RUNWAY 30: Climbing left turn direct FCA VOR/DME, thence.... or, climb in visual conditions to cross Glacier Park Intl Airport southeast bound at or above 3800, then via FCA R-313 to FCA VOR/DME, thence....

TAKE-OFF RUNWAY 12: Climbing right turn direct FCA VOR/DME, thence....

TAKE-OFF RUNWAY 20: Climbing left turn direct FCA VOR/DME, thence....

....continue climb to 10,000 via FCA R-159 to SKOTT INT.

VOR/DME FCA <u>113.2</u> Chan 79	APP CRS 316°	Rwy Idg 3504 TDZE 2974 Apt Elev 2977
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VOR/DME RWY 30
KALISPELL/ GLACIER PARK INTL (GPI)

T Visibility reduction by helicopters not authorized.
When VGSI inoperative, straight-in minimums not authorized at night.

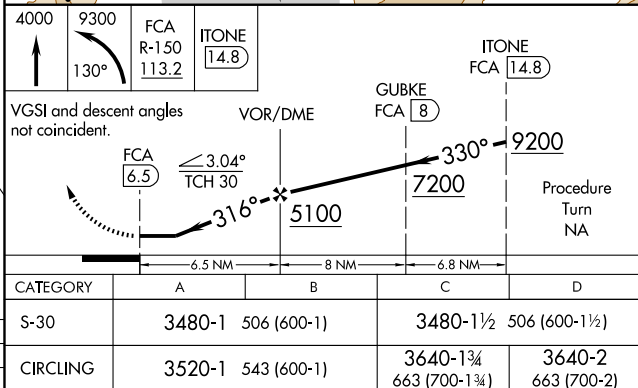
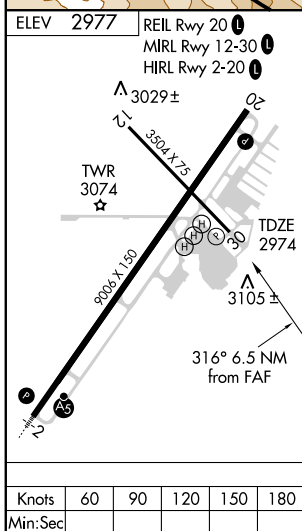
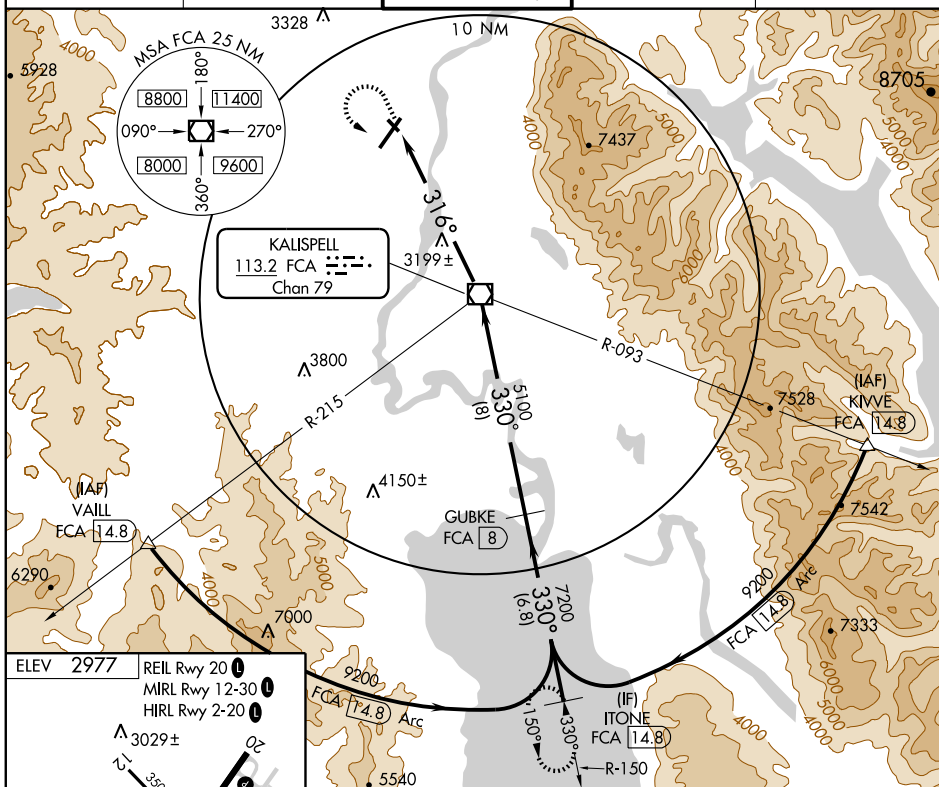
MISSED APPROACH: Climb to 4000 then climbing left turn to 9300 via heading 130° and FCA R-150 to ITONE/14.8 DME and hold, continue climb-in-hold to 9300.

ATIS
132.625

SALT LAKE CENTER
133.4 285.4

GLACIER TOWER★
124.55 (CTAF)

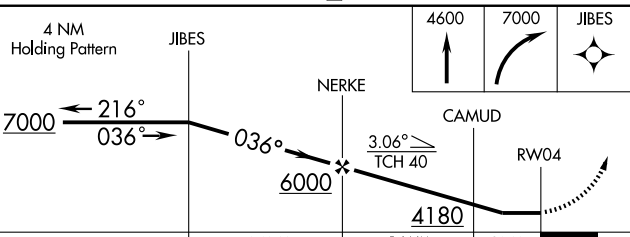
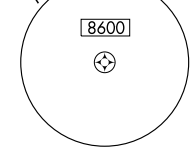
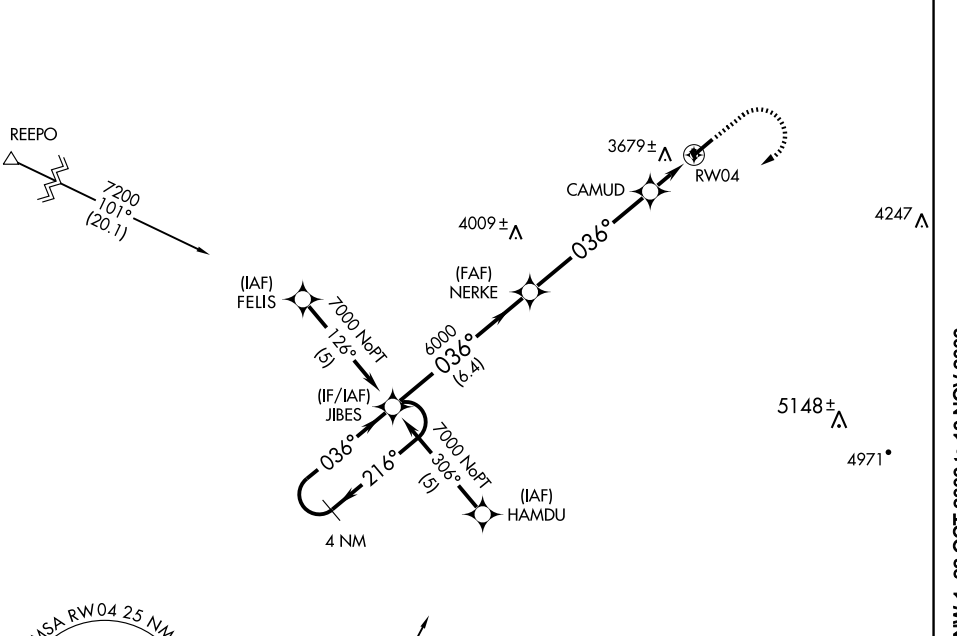
GND CON
121 6

UNICOM
122.95

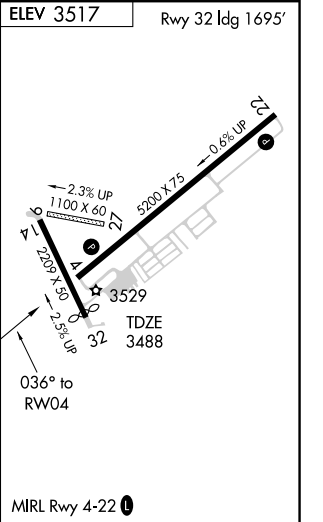
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 4600 then climbing right turn to 7000 direct JIBES WP and hold.

AWOS-3 123.05	BILLINGS APP CON 119.2 120.5 284.6	UNICOM 123.05 (CTAF)
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CATEGORY	A	B	C	D
LNAV	4120-1	632 (700-1)	4120-1 3/4 632 (700-1 3/4)	4120-2 632 (700-2)
CIRCLING	4220-1	703 (800-1)	4220-2 703 (800-2)	4340-2 3/4 823 (900-2 3/4)

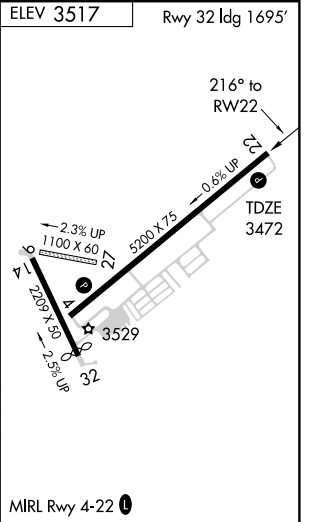
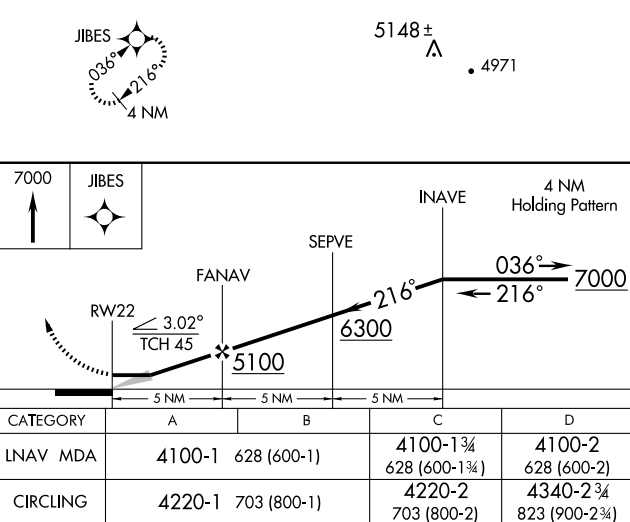
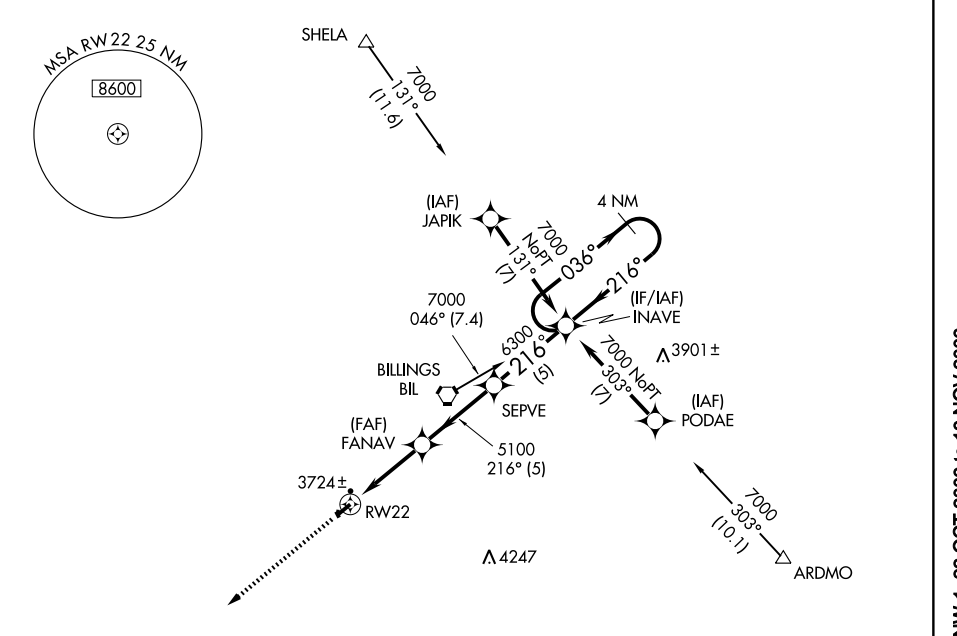


NW-1. 22 OCT 2009 to 19 NOV 2009

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 7000 direct JIBES WP and hold.

AWOS-3 123.05	BILLINGS APP CON 119.2 120.5 284.6	UNICOM 123.05 (CTAF)
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NW-1. 22 OCT 2009 to 19 NOV 2009

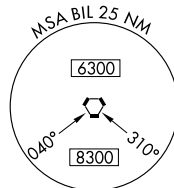
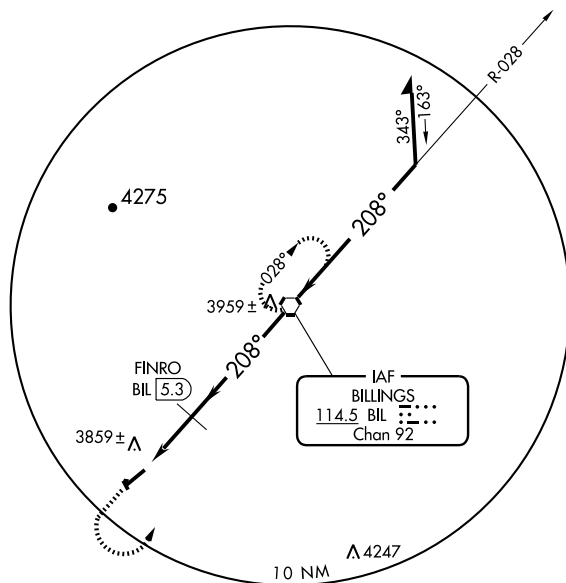
VORTAC BIL 114.5 Chan 92	APP CRS 208°	Rwy Idg 5200 TDZE 3472 Apt Elev 3517
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VOR RWY 22
LAUREL MUNI (6S8)

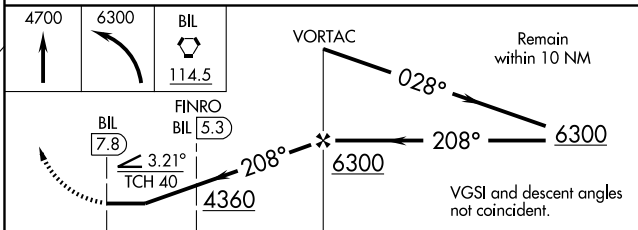
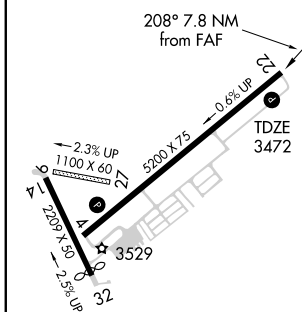
T
A NA Use Billings altimeter setting.

MISSED APPROACH: Climb to 4700 then climbing left turn to 6300 direct BIL VORTAC and hold.

AWOS-3 123.05	BILLINGS APP CON 119.2 120.5 284.6	UNICOM 123.05 (CTAF) 0
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ELEV 3517	Rwy 32 ldg 1695'
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	2.5 NM	5.3 NM		
CATEGORY	A	B	C	D
S-22	4360-1¼ 888 (900-1¼)		4360-2¾ 888 (900-2¾)	4360-3 888 (900-3)
CIRCLING	4360-1¼ 843 (900-1¼)		4360-2¾ 843 (900-2¾)	4360-3 843 (900-3)
FINRO FIX MINIMUMS				
S-22	4160-1 688 (700-1)		4160-2 688 (700-2)	4160-2¼ 688 (700-2¼)
CIRCLING	4220-1 703 (800-1)		4220-2 703 (800-2)	4340-2¾ 823 (900-2¾)

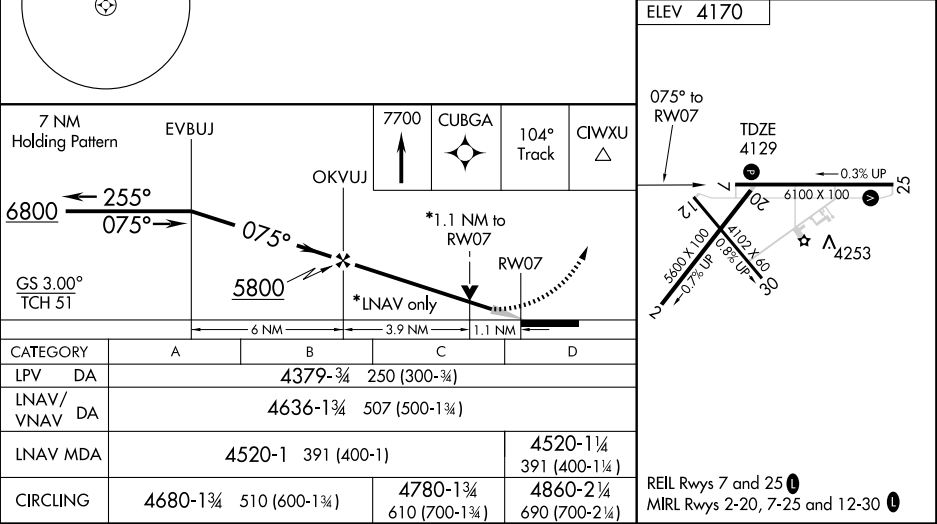
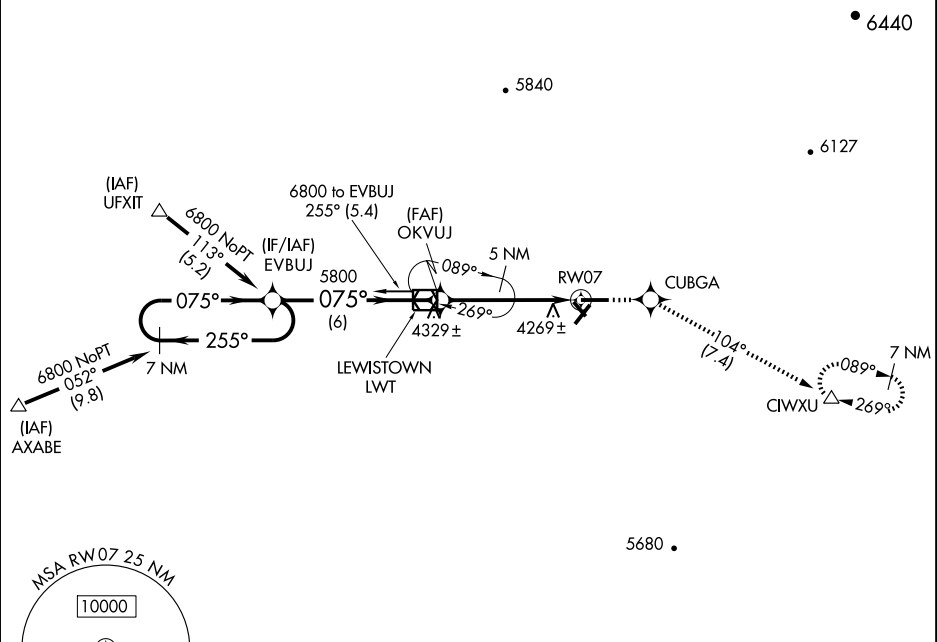
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DME/DME RNP -0.3 NA.
If local climeter setting not received, procedure NA.
Baro-VNAV NA below -23°C (-9°F)

MISSED APPROACH: Climb to 7700 direct CUBGA and via 104° track to CIWXU and hold, continue climb-in-hold to 7700.

ASOS 118.375	GREAT FALLS RADIO 122.2	UNICOM 123.0 (CTAF) 0
------------------------	-----------------------------------	--



▼

▲

If local altimeter setting not received, procedure not authorized.

MISSED APPROACH: Climbing right turn to 6000 direct LWT VORTAC and hold.

ASOS

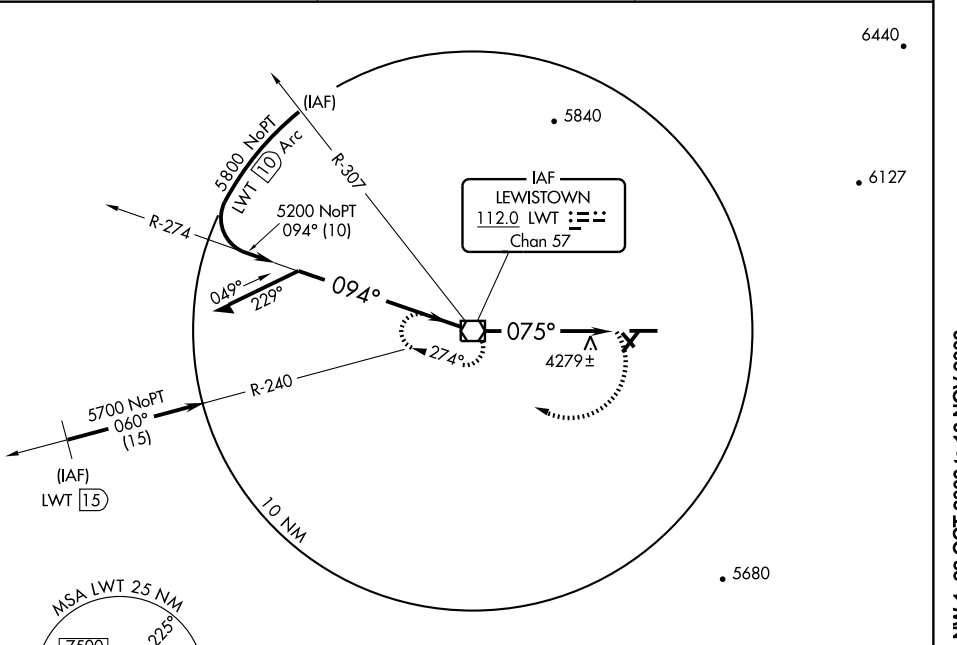
118.375

GREAT FALLS RADIO

122.2

UNICOM

123.0 (CTAF) 0



ELEV 4167

075° 5.7 NM from FAF

TDZE 4126

6100 X 100

4126 X 100

4253

5800 X 100

0.7% UP

0.8% UP

0.3% UP

REIL Rwy 7 and 25 0

MIRL Rwy 2-20, 7-25 and 12-30 0

FAF to MAP 5.6 NM

Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52

CATEGORY	A	B	C	D
S-7	4600-1	474 (500-1)	4600-1¼ 474 (500-1¼)	4600-1½ 474 (500-1½)
CIRCLING	4660-1	493 (500-1)	4660-1½ 493 (500-1½)	4880-2¼ 713 (800-2¼)

Remain within 10 NM

VORTAC

6000

274°

094°

5200

075°

5.6 NM

0.1

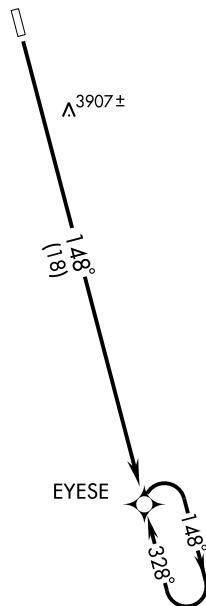
EYESE ONE DEPARTURE (RNAV) (OBSTACLE)

SEATTLE CENTER

123.95 282.3

AWOS-A

118.575



NOTE: 1. GPS Required.
2. RNAV 1

TAKE-OFF MINIMUMS: 1400-2 or standard with a minimum
climb of 380' per NM to 9600'.
3907' terrain 23,697' from runway threshold,
2491' left of centerline.





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 15: Climb via 148° course to 9600' to EYESE WP, then
continue climb to 12,000' within the EYESE holding pattern.

APP CRS 148°	Rwy Idg TDZE Apt Elev	N/A N/A 2601
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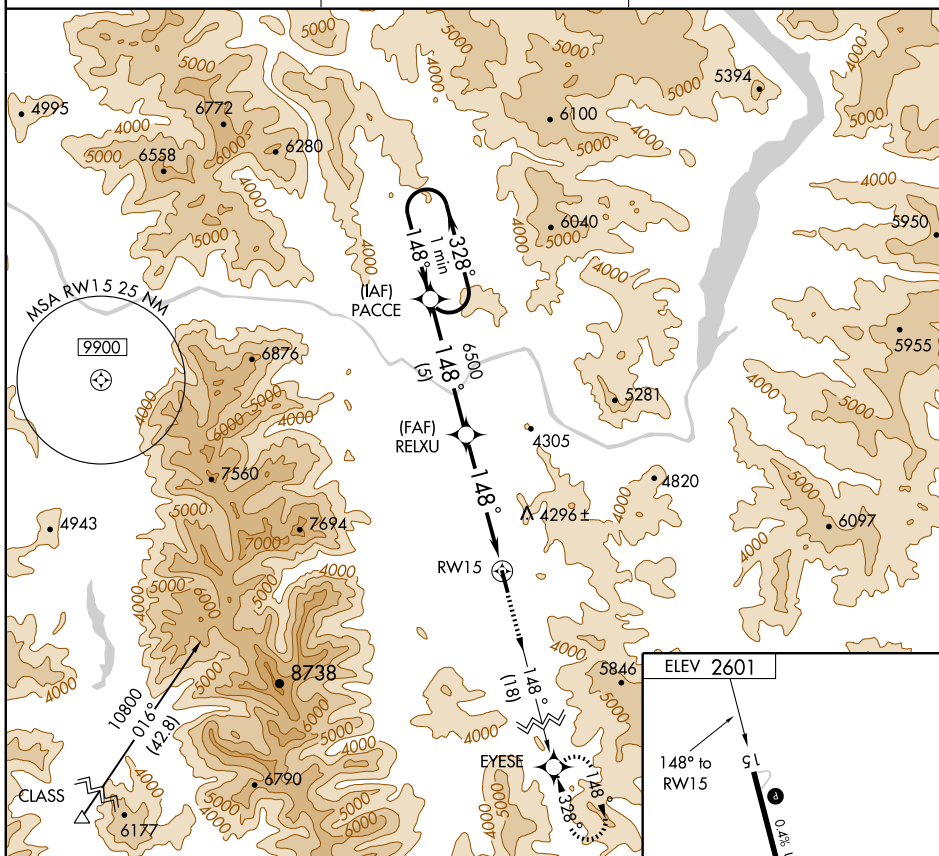
GPS-A
LIBBY (S59)

	Obtain local altimeter setting on CTAF; when not received procedure not authorized.
 NA	Circling not authorized east of Rwy 15-33 at night.

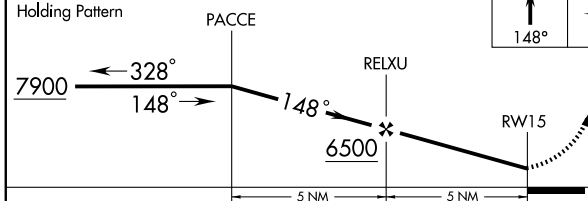
MISSED APPROACH: Climb to 9600 via 148° course to EYSE WP and hold.

AWOS-A
118.575

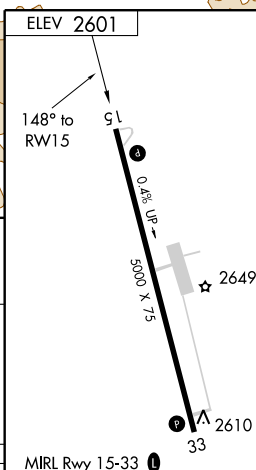
SEATTLE CENTER
123.95 282.3

UNICOM
122.8 (CTAF) 

One Minute Holding Pattern



CATEGORY	A	B	C
CIRCLING	5100-1¼ 2499 (2500-1¼)	5100-1½ 2499 (2500-1½)	NA



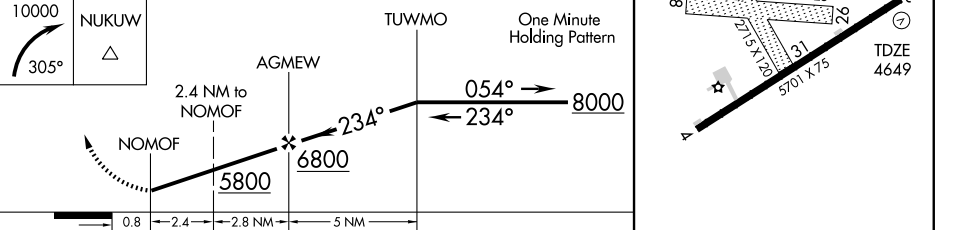
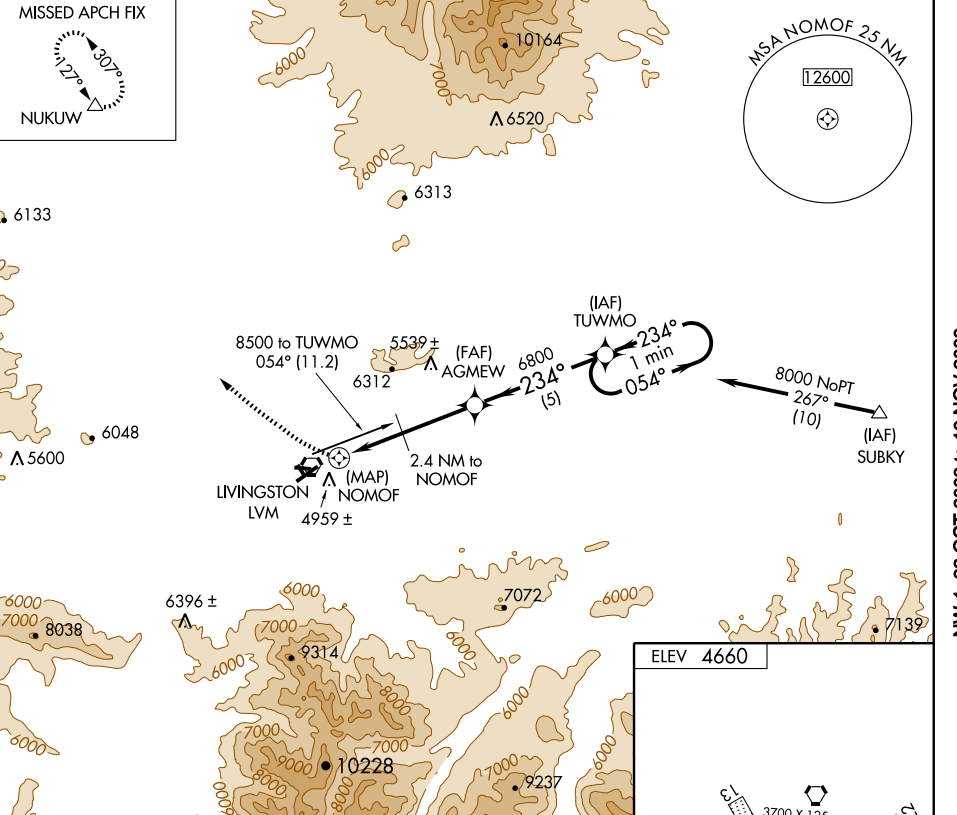
NW-1. 22 OCT 2009 to 19 NOV 2009

▼

▲ NA

MISSED APPROACH: Climbing right turn to 10000 via 305° course to NUKUW WP and hold.

ASOS 135.275	GREAT FALLS RADIO 122.2	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
S-22	5080-1	431 (500-1)	5080-1½ 431 (500-1½)	5080-1½ 431 (500-1½)
CIRCLING	5360-1 700 (700-1)	5380-1 720 (800-1)	5380-2 720 (800-2)	5580-3 920 (1000-3)

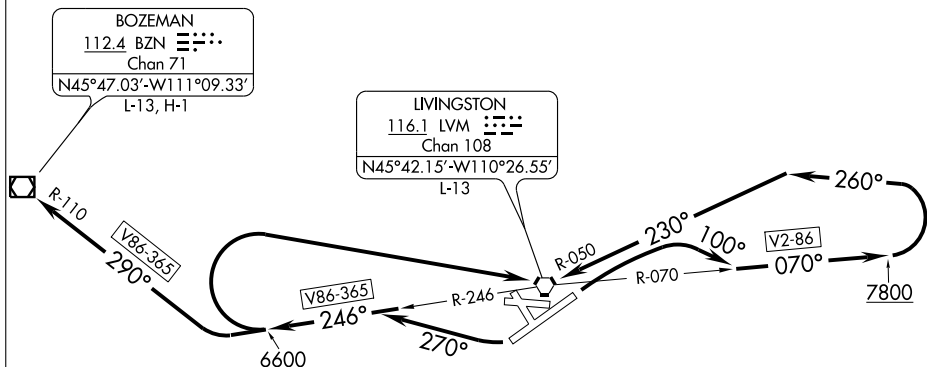
REIL Rwy 22

MIRL Rwy 4-22 0

NW-1. 22 OCT 2009 to 19 NOV 2009

LIVINGSTON ONE DEPARTURE (OBSTACLE)

GREAT FALLS RADIO
122.2
ASOS 135.275



TAKE-OFF MINIMUMS

Rwys 8, 13, 26, 31: NA-Environmental.

Rwy 4: Standard.

Rwy 22: Standard with minimum climb of 300' per NM to 6800
or 2700-3 for climb in visual conditions.

TAKE-OFF OBSTACLE NOTE

Rwy 22: Multiple trees beginning 400' from DER, 256' right of centerline, up to 100' AGL/4719' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 4: Climbing right turn heading 100° and LVM VORTAC R-070 outbound; aircraft departing eastbound, climb via LVM R-070/V2-86 enroute. All others continue climb on LVM R-070 to 7800, then climbing left turn via heading 260° and LVM R-050 to cross LVM VORTAC at or above 9000, then climb enroute.

TAKE-OFF RUNWAY 22: Climbing right turn heading 270° and LVM VORTAC R-246 outbound; aircraft departing eastbound, continue climb via LVM R-246 outbound to 6600, then climbing right turn direct LVM VORTAC, then climb on LVM R-070/V2-86 enroute. All other aircraft continue climb via LVM VORTAC R-246 and BZN VOR/DME R-110 to BZN. For climb in visual conditions, cross LVM VORTAC at or above 9000 before proceeding via filed airway route.

VORTAC LVM 116.1 Chan 108	APP CRS 145°	Rwy Idg TDZE Apt Elev N/A 4660	N/A N/A
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VOR/DME-B

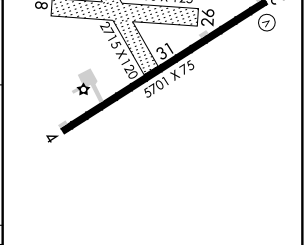
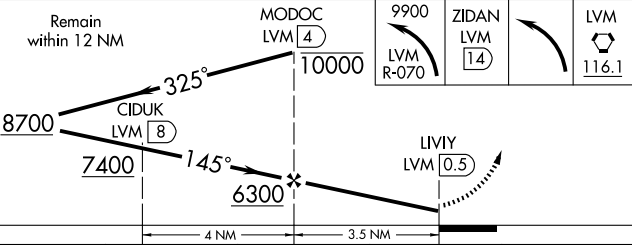
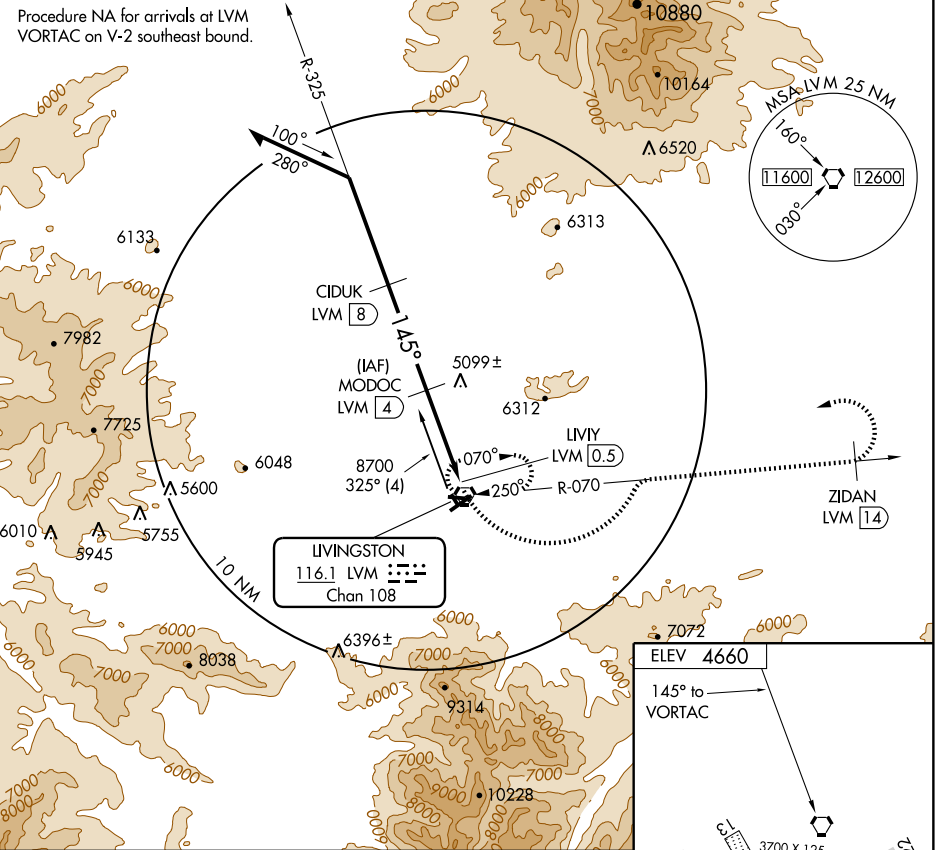
LIVINGSTON/MISSION FIELD (LVM)

▼

▲

MISSED APPROACH: Climbing left turn to 9900 via LVM VORTAC
R-070 to ZIDAN/14 DME and left turn direct LVM VORTAC and hold.

ASOS 135.275	GREAT FALLS RADIO 122.2	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
CIRCLING	5540-1 880 (900-1)	5540-1¼ 880 (900-1¼)	5540-2½ 880 (900-2½)	5580-3 920 (1000-3)

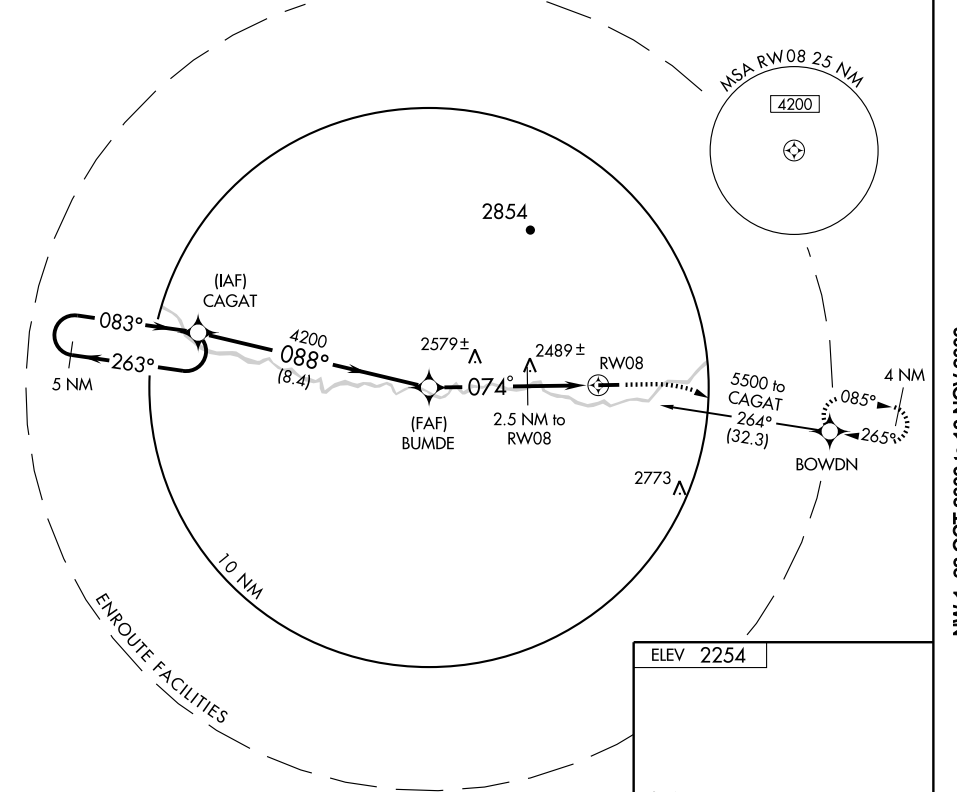
REIL Rwy 22
MIRL Rwy 4-22 **0**

NA

Use Glasgow altimeter setting; when not received procedure not authorized.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 3500 then climbing right turn to 6500 direct BOWDN WP and hold.

AWOS-3 122.8	SALT LAKE CITY CENTER 126.85 305.2	UNICOM 122.8(CTAF) 0
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5 NM Holding Pattern	CAGAT	BUMDE	2.5 NM to RW08	RW08	BOWDN
5500	263°	083°	088°	074°	26
VGSI and descent angles not coincident.					
<div> <div>8.4 NM</div> <div>3.5 NM</div> <div>2.5 NM</div> </div>					
CATEGORY	A	B	C	D	
LNVA MDA	2980-1 726 (800-1)		NA		
CIRCLING	3060-1 806 (900-1)	3100-1¼ 846 (900-1¼)	NA		

ELEV 2254

074° to RW08

∞

4500 X 75

26

TDZE 2254

3500

6500

BOWDN

5 NM

Holding Pattern

CAGAT

BUMDE

2.5 NM to RW08

RW08

BOWDN

2.5 NM

3.5 NM

8.4 NM

3.00°

TCH 40

3080

4200

5500

263°

083°

088°

074°

26

VGSI and descent angles not coincident.

LNVA MDA

2980-1 726 (800-1)

NA

CIRCLING

3060-1 806 (900-1)

3100-1¼ 846 (900-1¼)

NA

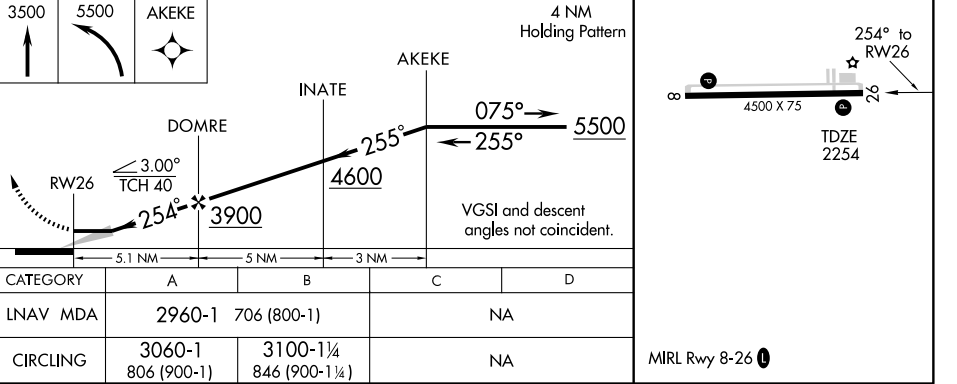
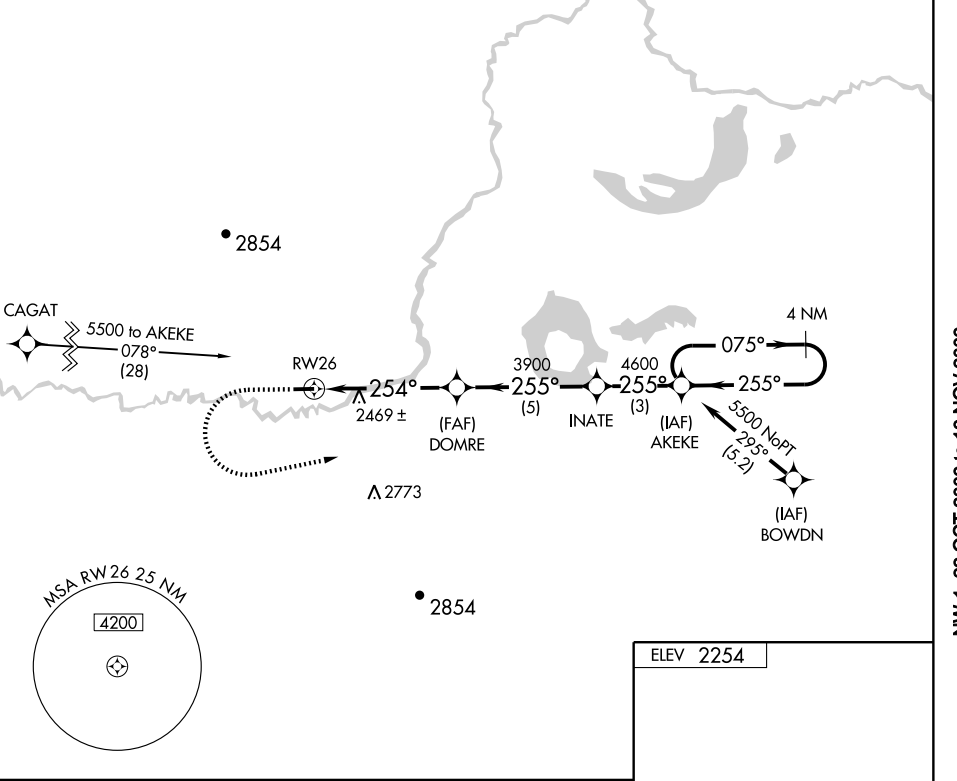
MIRL Rwy 8-26 0

NA

Use Glasgow altimeter setting; when not received procedure not authorized.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 3500 then climbing left turn to 5500 direct AKEKE WP and hold.

AWOS-3 122.8	SALT LAKE CITY CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 0
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NDB RWY 4

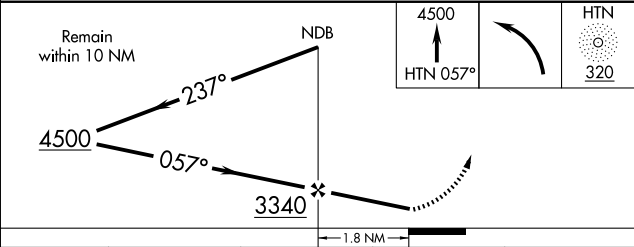
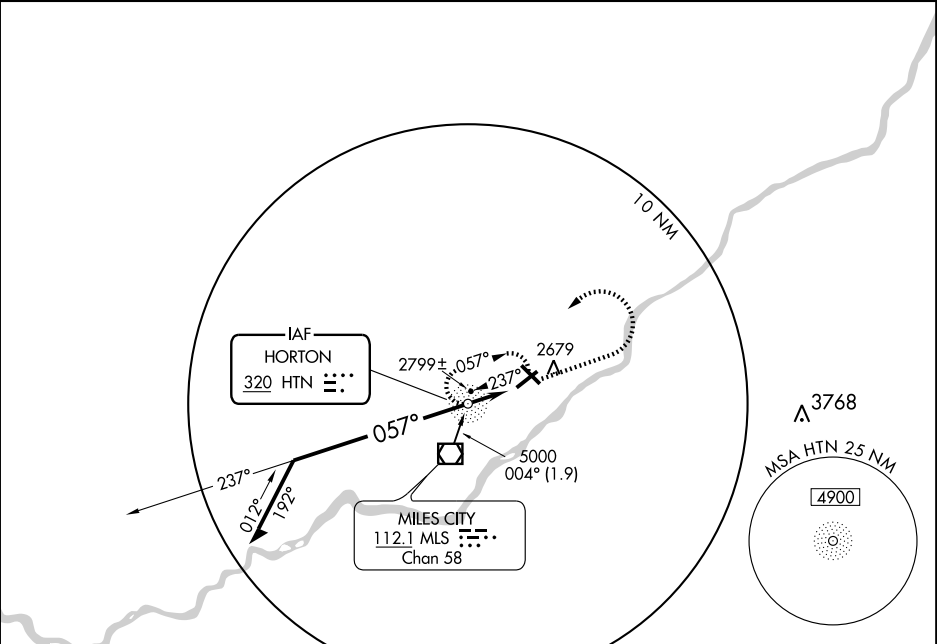
MILES CITY/FRANK WILEY FIELD (MLS)

NDB HTN	APP CRS	Rwy Idg	5680
320	057°	TDZE	2629
		Apt Elev	2630

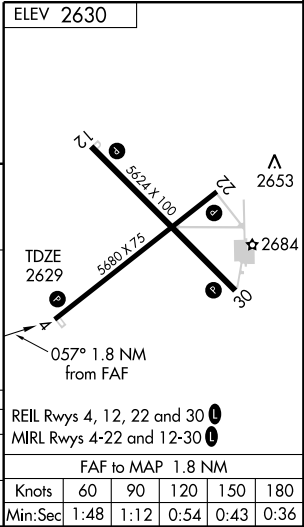
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4500 via 057° bearing from HTN NDB then left turn direct HTN NDB and hold.

ASOS 135.575	GREAT FALLS RADIO 122.2 255.4	UNICOM 123.0 (CTAF) 1
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CATEGORY	A	B	C	D
S-4	3060-1	431 (500-1)	3060-1¼ 431 (500-1¼)	3060-1½ 431 (500-1½)
CIRCLING	3060-1 430 (500-1)	3080-1 450 (500-1)	3100-1½ 470 (500-1½)	3180-2 550 (600-2)



WAAS CH 42600 W04A	APP CRS 040°	Rwy ldg TDZE 5680 2629 Apt Elev 2630
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RNAV (GPS) RWY 4
MILES CITY/ FRANK WILEY FIELD (MLS)

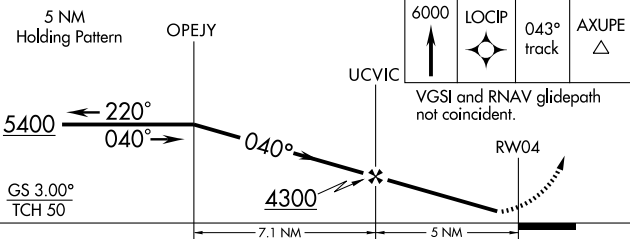
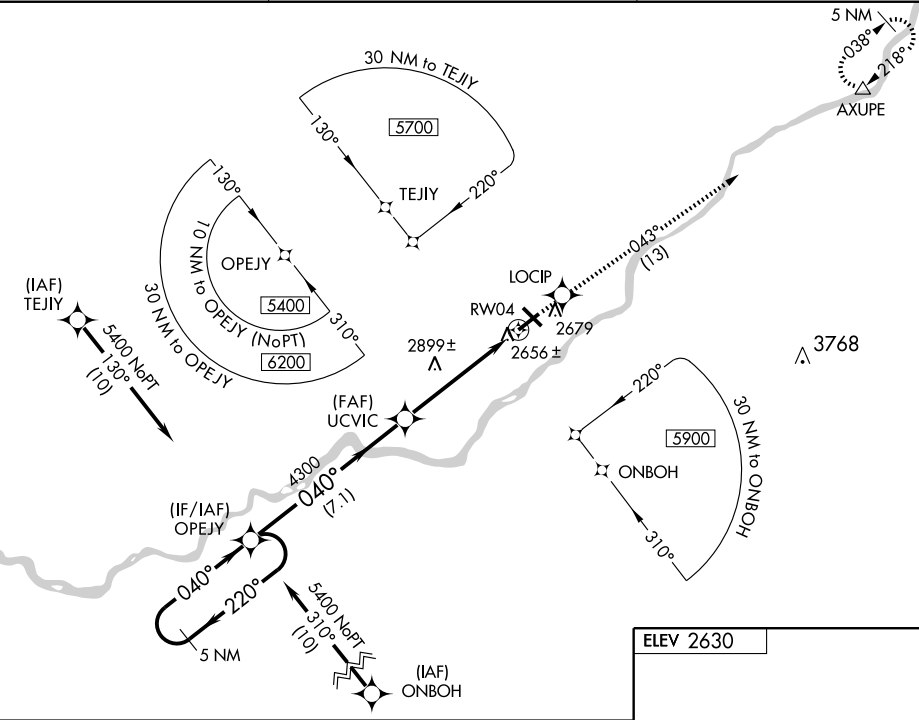
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 32°C (111°F).
Visibility reduction by helicopters NA.
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 6000 direct LOCIP and via 043° track to AXUPE and hold.

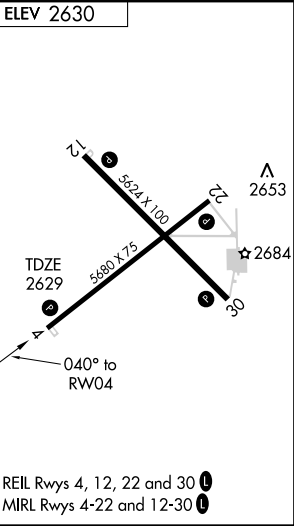
ASOS
135.575

GREAT FALLS RADIO
122.2 255.4

UNICOM
123.0 (CTAF)



CATEGORY	A	B	C	D
LPV DA	2879-1	250 (300-1)		
LNAV/VNAV DA	2926-1	297 (300-1)		
LNAV MDA	3160-1	531 (600-1)	3160-1½ 531 (600-1½)	3160-1¾ 531 (600-1¾)
CIRCLING	3160-1	530 (600-1)	3160-1½ 530 (600-1½)	3180-2 550 (600-2)

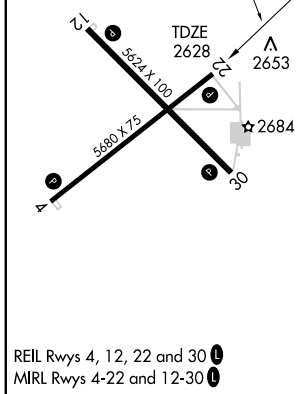
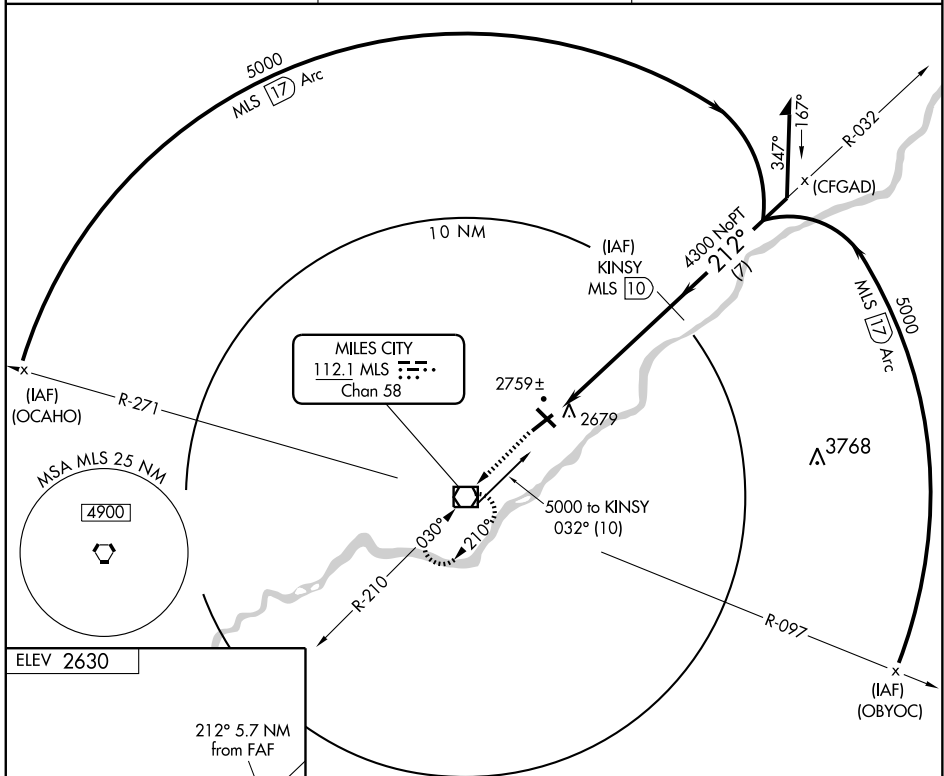


VORTAC MLS 112.1 Chan 58	APP CRS 212°	Rwy Idg TDZE Apt Elev 5680 2628 2630
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VOR/DME or GPS RWY 22

MILES CITY/FRANK WILEY FIELD (MLS)

MISSED APPROACH: Climb direct to MLS VORTAC. Continue climb to 4700 in MLS VORTAC holding pattern.		
ASOS 135.575	GREAT FALLS RADIO 122.2 255.4	UNICOM 123.0 (CTAF) 1



<div> <div>4700</div> <div>MLS</div> <div>112.1</div> </div>				
<div> <div>212° 5.7 NM from FAF</div> <div>TDZE 2628</div> <div>2653</div> <div>2684</div> <div>30</div> <div>5624 X 100</div> <div>5680 X 75</div> </div>				
<div> <div>4300</div> <div>MLS</div> <div>5.5</div> <div>4.3</div> <div>1.2</div> <div>4.5 NM</div> </div>				
<div> <div>032°</div> <div>212°</div> <div>4600</div> <div>4300</div> </div>				
<div> <div>Remain within 10 NM</div> </div>				
CATEGORY	A	B	C	D
S-22	3020-1 392 (400-1)			3020-1½ 392 (400-1½)
CIRCLING	3060-1 430 (500-1)	3080-1 450 (500-1)	3100-1½ 470 (500-1½)	3180-2 550 (600-2)

VOR RWY 4

MILES CITY/FRANK WILEY FIELD (MLS)

VORTAC MLS	APP CRS	Rwy Idg	5680
112.1	030°	TDZE	2629
Chan 58		Apt Elev	2630

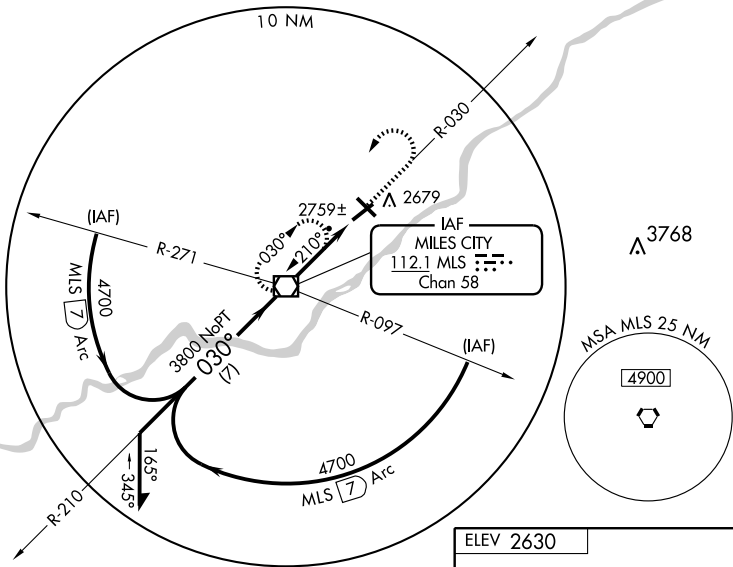
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4700 via MLS R-030 then left turn direct MLS VORTAC and hold.

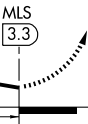
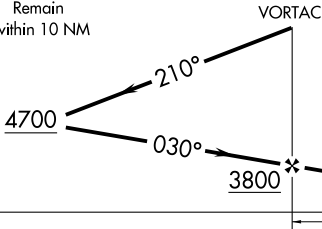
ASOS
135.575

GREAT FALLS RADIO
122.2 255.4

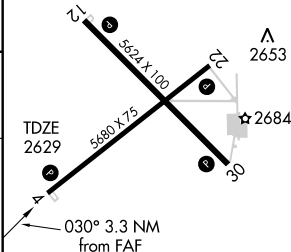
UNICOM
123.0 (CTAF) 0



Remain
within 10 NM



ELEV 2630



REIL Rwy 4, 12, 22 and 30 0
MIRL Rwy 4-22 and 12-30 0

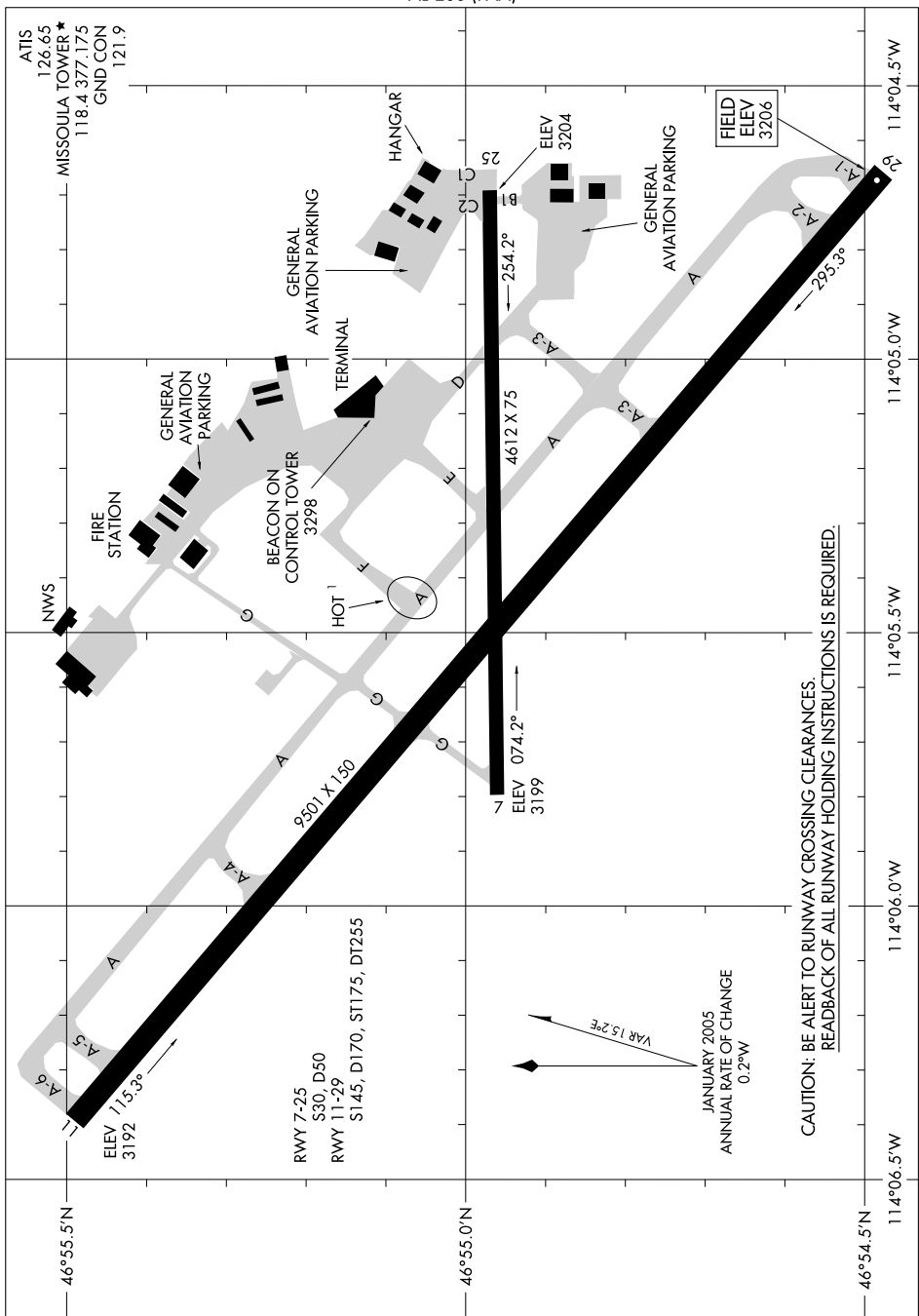
FAF to MAP 3.3 NM

Knots	60	90	120	150	180
Min:Sec	3:18	2:12	1:39	1:19	1:06

AIRPORT DIAGRAM

AL-266 (FAA)

MISSOULA INTL (MSO)
MISSOULA, MONTANA

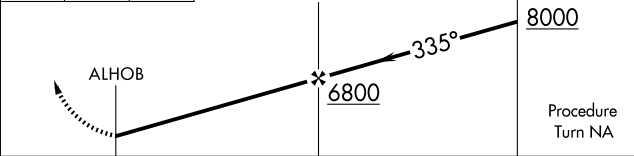
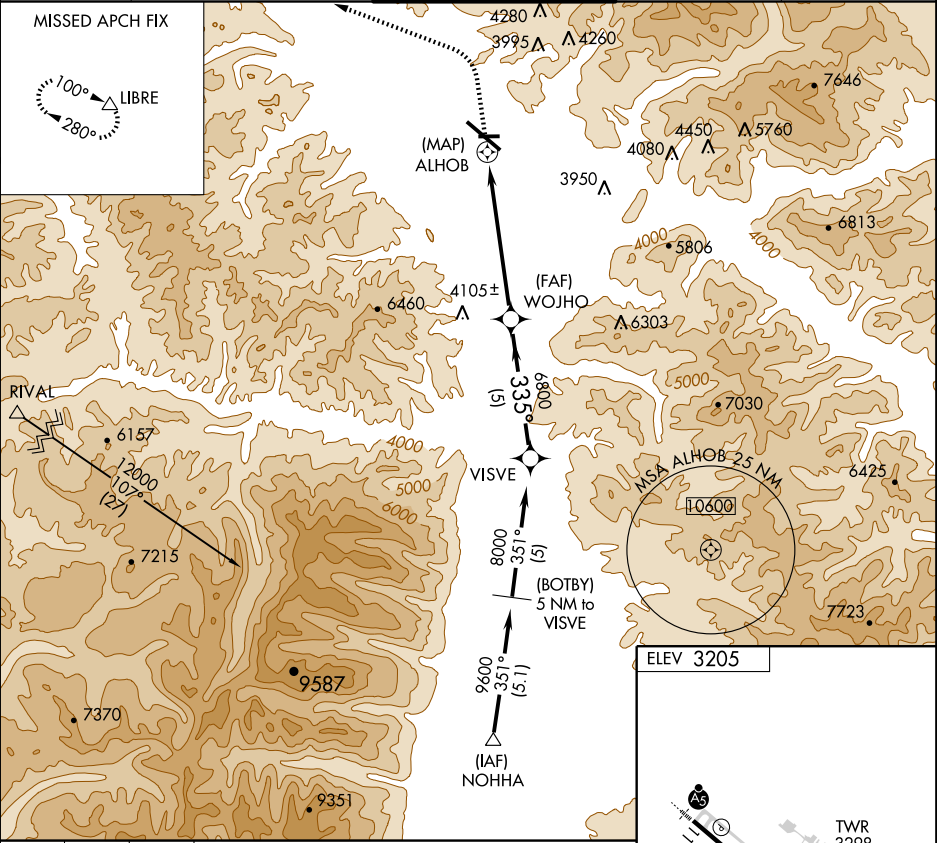


NW-1. 22 OCT 2009 to 19 NOV 2009

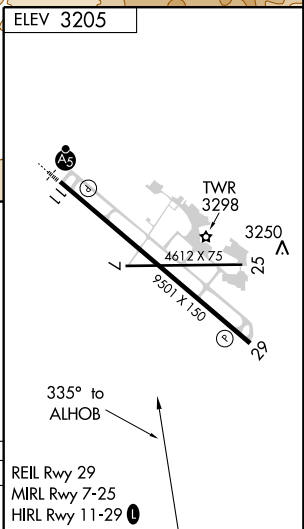
APP CRS	Rwy Idg	N/A
335°	TDZE	N/A
	Apt Elev	3205

<div>▼ NA</div>	MISSED APPROACH: Climb to 5300 then climbing left turn to 9600 direct LIBRE WP and hold.
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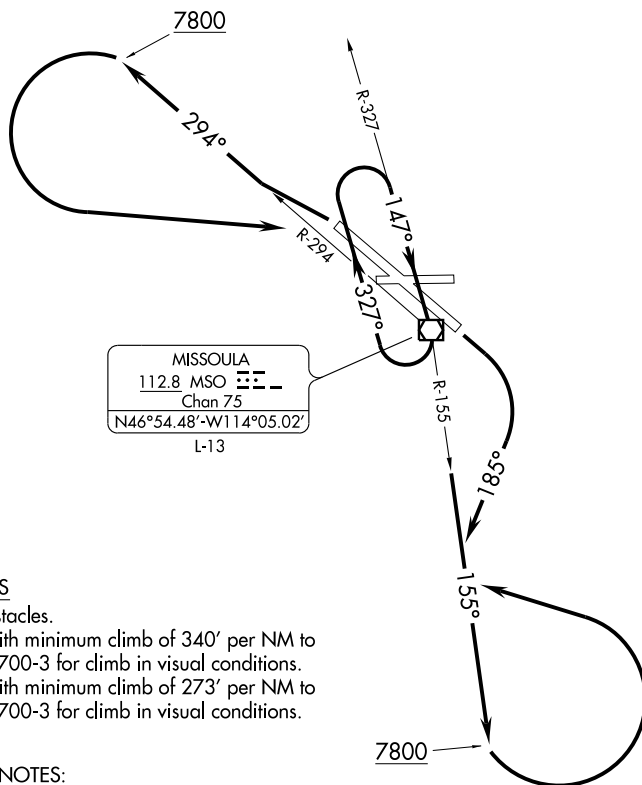
ATIS 126.65	SPOKANE APP CON* 124.9 298.95	MISSOULA TOWER* 118.4 (CTAF) 377.175	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
CIRCLING	5120-1¼ 1915 (2000-1¼)	5120-1½ 1915 (2000-1½)	5120-3 1915 (2000-3)	



ATIS 126.65
GND CON
121.9
MISSOULA TOWER ★
118.4 (CTAF) 377.175
SPOKANE DEP CON
124.9 298.95
SALT LAKE CITY CENTER
133.4 285.4



TAKE-OFF MINIMUMS

RWY 7, 25: NA- Obstacles.

RWY 11: Standard with minimum climb of 340' per NM to 7800, or 2700-3 for climb in visual conditions.

RWY 29: Standard with minimum climb of 273' per NM to 7800, or 2700-3 for climb in visual conditions.

TAKE-OFF OBSTACLE NOTES:

RWY 11: Tree 505' from DER, 171' left of centerline, 100' AGL/3300' MSL.

Fence 38' from DER, 487' right of centerline, 21' AGL/3213' MSL

RWY 29: Multiple AAOs beginning 6.5 NM from DER, 1.5 NM left of centerline, up to 200' AGL/4639' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

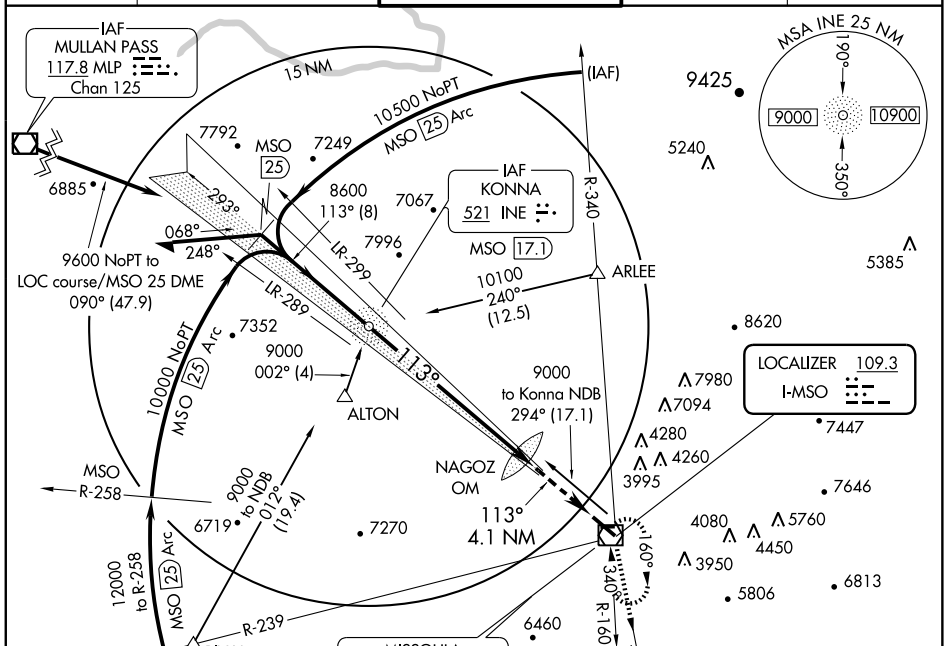
TAKE-OFF RUNWAY 11: Climbing right turn heading 185° to intercept MSO R-155, southeast bound to 7800, thence. . . .

or, climb in visual conditions to cross MSO VOR/DME southeast bound at or above 5800, continue climb to 7800 via MSO VOR/DME R-155, thence. . . .

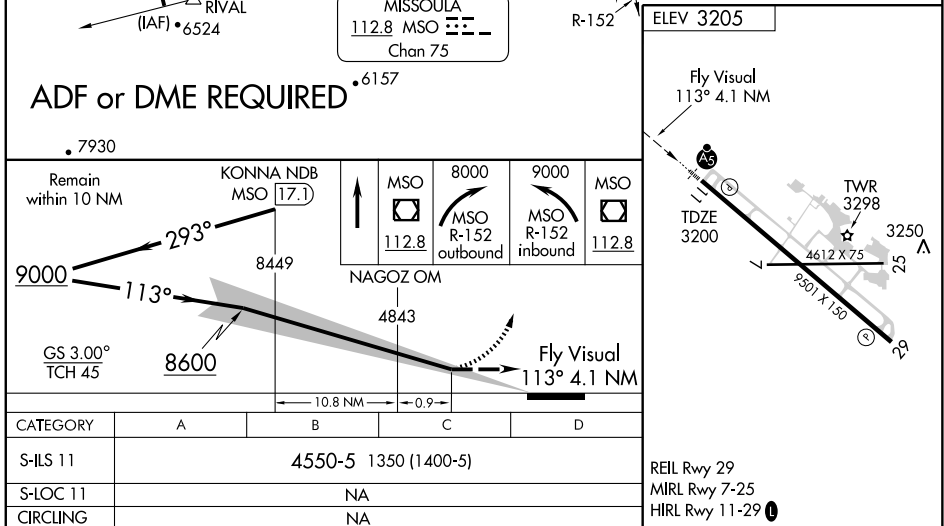
TAKE-OFF RUNWAY 29: Climb via MSO R-294 to 7800, then climbing left turn via MSO R-294 to MSO VOR/DME, climb in MSO VOR/DME holding pattern to MEA/MCA for route of flight or, climb in visual conditions to cross MSO VOR/DME southeast bound at or above 5800, continue climb to 7800 via MSO VOR/DME R-155, thence. . . .

. . . .climbing left turn via MSO VOR/DME R-155 to MSO VOR/DME, climb in MSO VOR/DME holding pattern to MEA/MCA for route of flight.

ATIS 126.65	SPOKANE APP CON ★ 124.9 298.95	MISSOULA TOWER ★ 118.4 (CTAF) 0 377.175	GND CON 121.9	UNICOM 122.95
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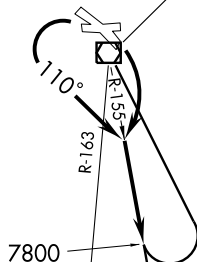
ADF or DME REQUIRED



ATIS 126.65
GND CON
121.9
MISSOULA TOWER*
118.4 (CTAF) 377.175
SPOKANE DEP CON
124.9 298.95
SALT LAKE CITY CENTER
133.4 285.4

MISSOULA
112.8 MSO
Chan 75
N46°54.48'-W114°05.02'

L-13
10,000



VICTO
N46°34.68'
W114°00.98'
11,000

*Approx dist

NOTE: This SID requires a minimum climb of 400' per NM to 11,000'.

NOTE: DME required.

SALMON
113.5 LKT
Chan 82
N45°01.28'-W114°05.05'
L-13, H-1

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 7: Not authorized.

TAKE-OFF RUNWAY 11: Climbing right turn to intercept MSO R-155, thence....

TAKE-OFF RUNWAY 25 OR 29: Climbing left turn heading 110° to intercept MSO R-155, thence....

....climb to 7800' via MSO R-155; thence climb via (transition).

MISSOULA TRANSITION (MZULA1.MSO): After leaving 7800', make a climbing left turn direct to MSO VOR/DME.

SALMON TRANSITION (MZULA1.LKT): After reaching 7800' continue on MSO R-155 until VICTO INT. Then via 190° heading and V231 to LKT VOR/DME.

WAAS CH 65715 W11B	APP CRS 113°	Rwy Idg TDZE Apt Elev	9501 3200 3206
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T Inoperative table does not apply to LNAV % Cats A and B. For inoperative MALSR, increase LPV visibility all Cats to 2½ miles. DME/DME RNP-0.3 NA.

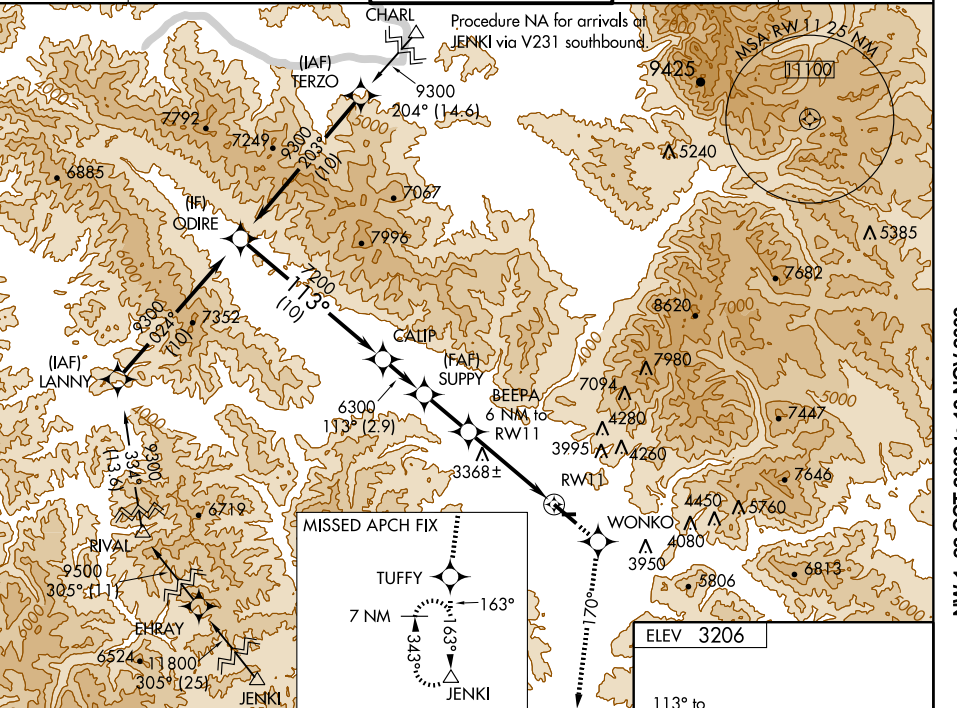
A Visibility reduction by helicopters NA.

Missed approach requires minimum climb of 290 feet per NM to 8300.

MALSR

MISSED APPROACH: Climb to 12000 direct WONKO and via track 170° to TUFFY and via track 163° to JENKI and hold.

ATIS 126.65	SPOKANE APP CON* 124.9 298.95	MISSOULA TOWER* 118.4 (CTAF) 377.175	GND CON 121.9	UNICOM 122.95
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Procedure Turn NA ODIRE

9300

GS 3.08° TCH 55

VGSI and RNAV glidepath not coincident.

12000 WONKO trk 170° TUFFY trk 163° JENKI

113° to RW11

7200

6300 5220*

10 NM 2.9 NM 3.1 NM 2.9 NM 3.1 NM

CATEGORY A B C D

LPV DA# 3896-2 696 (700-2)

LNAV MDA# 4220-¾ 1020 (1100-¾) 4220-1 1020 (1100-1) 4220-2½ 1020 (1100-2½)

LNAV MDA% 5100-1¼ 1900 (2000-1¼) 5100-1½ 1900 (2000-1½) 5100-2½ 1900 (2000-2½)

CIRCLING 5100-1¼ 1894 (1900-1¼) 5100-1½ 1894 (1900-1½) 5100-3 1894 (1900-3)

ELEV 3206

113° to RW11

TDZE 3200

TWR 3298

4612 X 75

9501 X 150

REIL Rwy 29

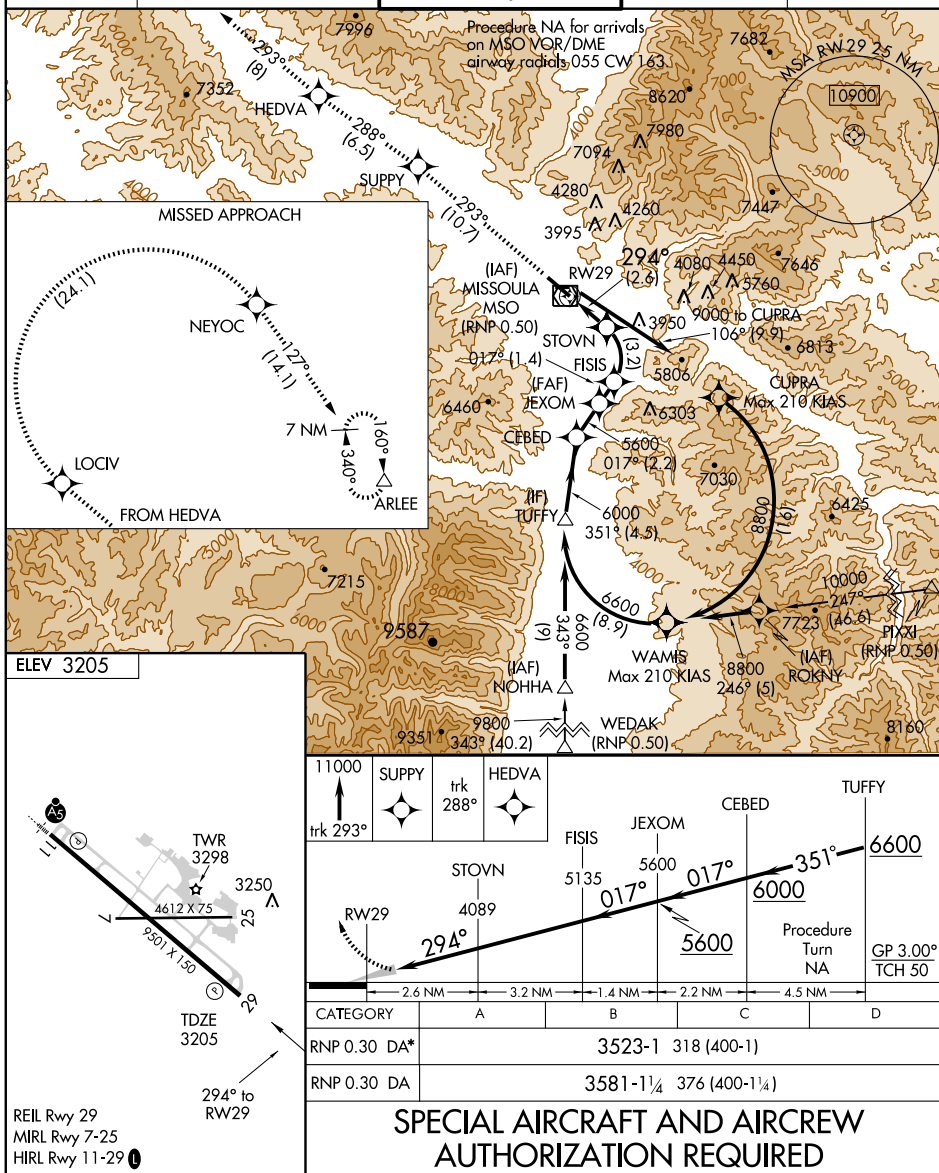
MIRL Rwy 7-25

HIRL Rwy 11-29

NW-1, 22 OCT 2009 to 19 NOV 2009

RNAV (RNP) RWY 29
MISSOULA INTL (MSO)

MISSED APPROACH: Climb to 11000 via track 293° to SUPPY, and via track 288° to HEDVA, and via track 293° to LOCIV, and via right turn to NEYOC, and via track 127° to ARLEE and hold.

UNICOM
122.95

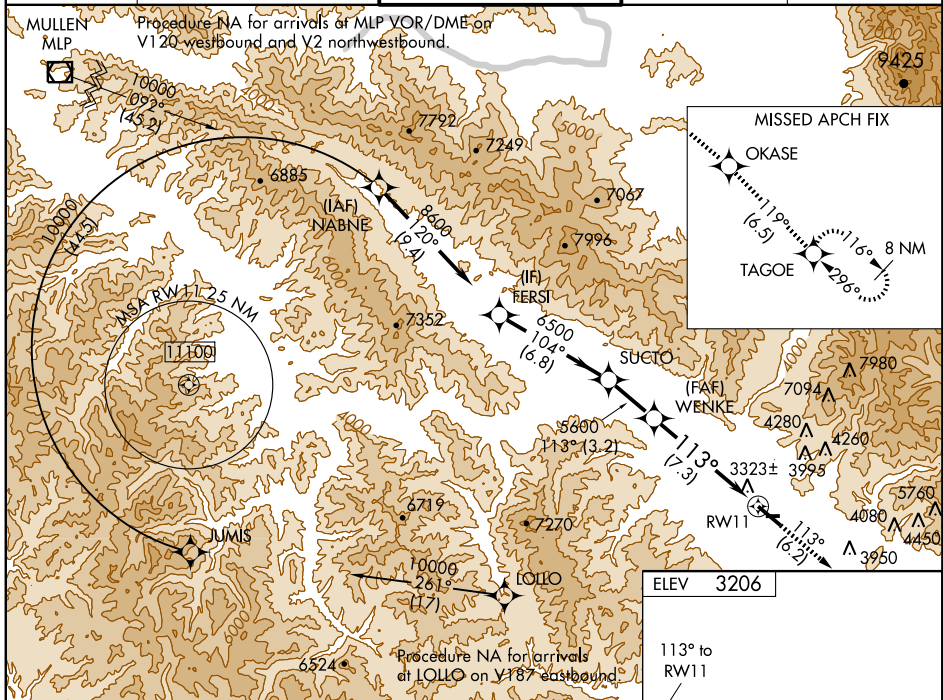
APP CRS	Rwy Idg	9501
113°	TDZE	3200
	Apt Elev	3206

RNAV (RNP) Z RWY 11

MISSOULA INTL (MSO)

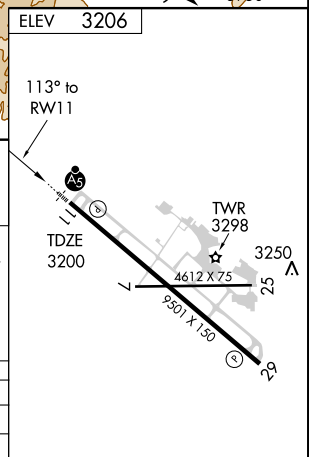
<p>GPS required. Visibility reduction by helicopters NA. For uncompensated Baro-VNAV systems, procedure NA below -21°C (-6°F) or above 43°C (109°F). For inoperative MALS increase RNP 0.12 visibility all Cats to 1¼, RNP 0.30 visibility all Cats to 2½.</p> <p>** Missed approach requires minimum climb of 425 feet per NM to 8300.</p> <p>## Missed approach requires minimum climb of 350 feet per NM to 8300, if unable see RNAV (GPS) Y RWY 11.</p>	<p>MALS</p> <p>A5</p>	<p>MISSED APPROACH:</p> <p>Climb to 13000 via track 113° to OKASE, and via track 119° to TAGOE and hold, continue climb-in-hold to 13000.</p>
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ATIS 126.65	SPOKANE APP CON * 124.9 298.95	MISSOULA TOWER * 118.4 (CTAF) 0 377.175	GND CON 121.9	UNICOM 122.95
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Procedure Turn NA	FERSI	SUCTO	OKASE	trk 113°	WENKE	trk 119°	TAGOE
8600	104°	6500	113°	5600	7.3 NM		
GP 3.00° TCH 45	6.8 NM	3.2 NM					
CATEGORY	A	B	C	D			
RNP 0.12 DA **		3518-¾	318 (400-¾)				
RNP 0.30 DA ##		3880-2	680 (700-2)				

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED



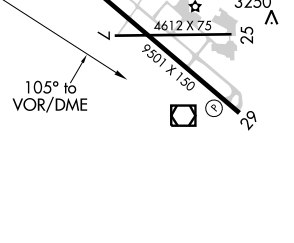
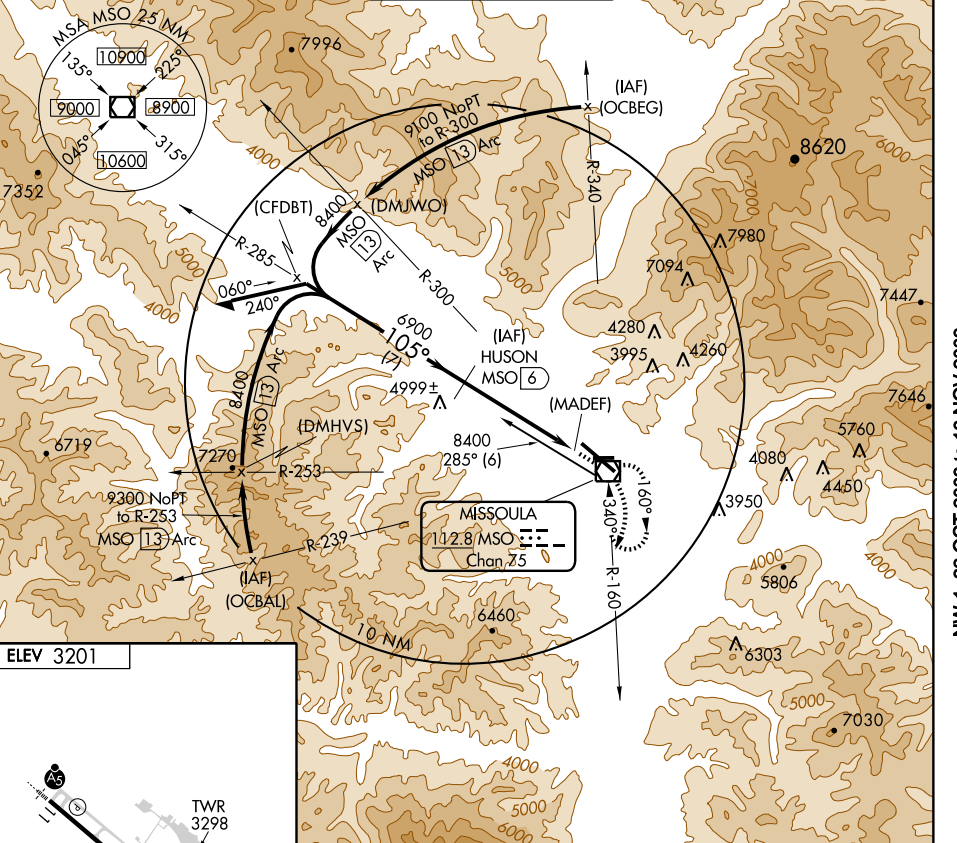
REIL Rwy 29
MIRL Rwy 7-25
HIRL Rwy 11-29

▼

▲

MISSUED APPROACH: Climb direct to MSO VOR/DME, then climbing right turn to 8000 outbound on R-160 then climbing left turn to 9000 inbound on the R-160 to MSO VOR/DME and hold.

ATIS 126.65	SPOKANE APP CON* 124.9 298.95	MISSOULA TOWER* 118.4 (CTAF) 377.175	GND CON 121.9	UNICOM 122.95
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REIL Rwy 29
MIRL Rwy 7-25
HIRL Rwy 11-29

Remain within 10 NM			
HUSON MSO (6)			
8400			
285°			
105°			
6900			
MADEF MSO (1.4)			
4.6 NM			
VOR/DME			
MSO 112.8			
8000 MSO R-160 outbound			
9000 MSO R-160 inbound			
MSO 112.8			
CATEGORY	A	B	C
CIRCLING	5060-1¼ 1859 (1900-1¼)	5060-1½ 1859 (1900-1½)	5060-3 1859 (1900-3)

NW-1. 22 OCT 2009 to 19 NOV 2009

VOR/DME MSO 112.8 Chan 75	APP CRS 335°	Rwy Idg N/A TDZE N/A Apt Elev 3201
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VOR/DME or GPS-B
MISSOULA INTL (MSO)



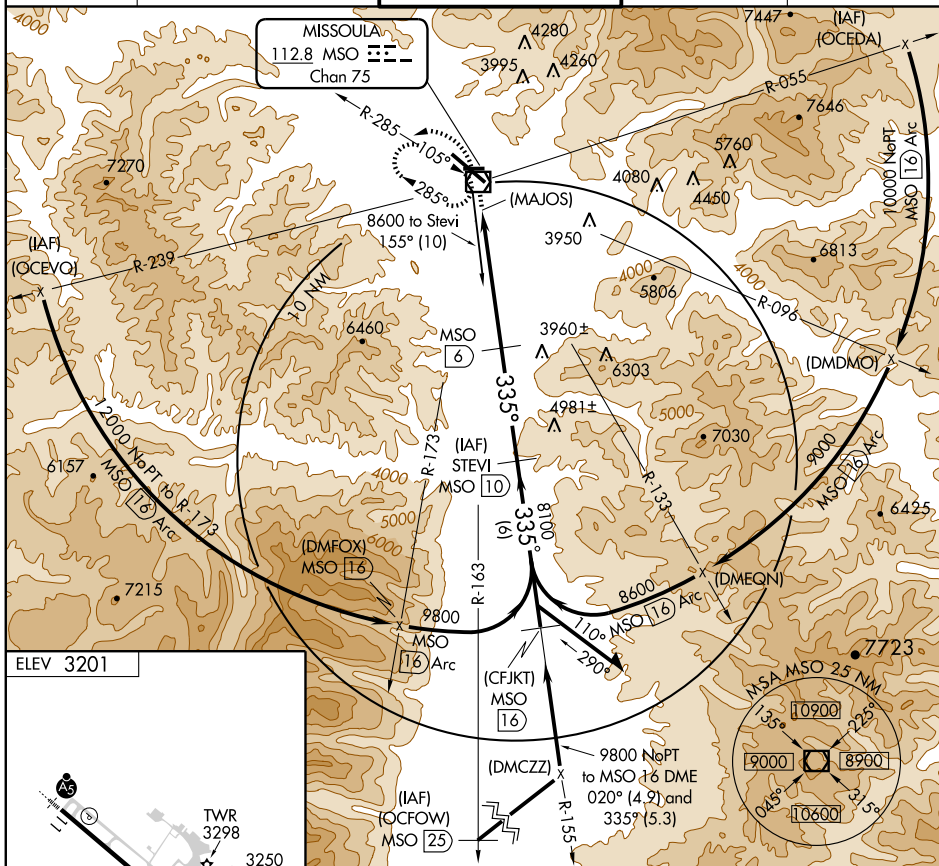
MISSED APPROACH: Climb direct MSO VOR/DME, then climbing left turn to 7500 on R-285 then climbing left turn to 9000 direct MSO VOR/DME and hold.

ATIS
126.65

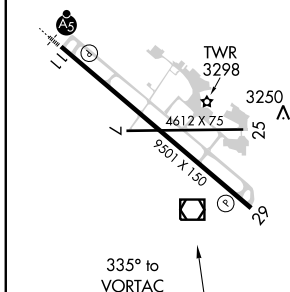
SPOKANE APP CON★
124.9 298.95

MISSOULA TOWER★
118.4 (CTAF) **L** 377.175

GND CON
121.9

UNICOM
122.95

ELEV 3201



REIL Rwy 29
MIRL Rwy 7-25
HIRL Rwy 11-29 **L**

CATEGORY	A	B	C	D
CIRCLING	4500-1¼ 1299 (1300-1¼)	4500-1½ 1299 (1300-1½)	4600-3 1399 (1400-3)	4740-3 1539 (1600-3)

RNAV (GPS)-A

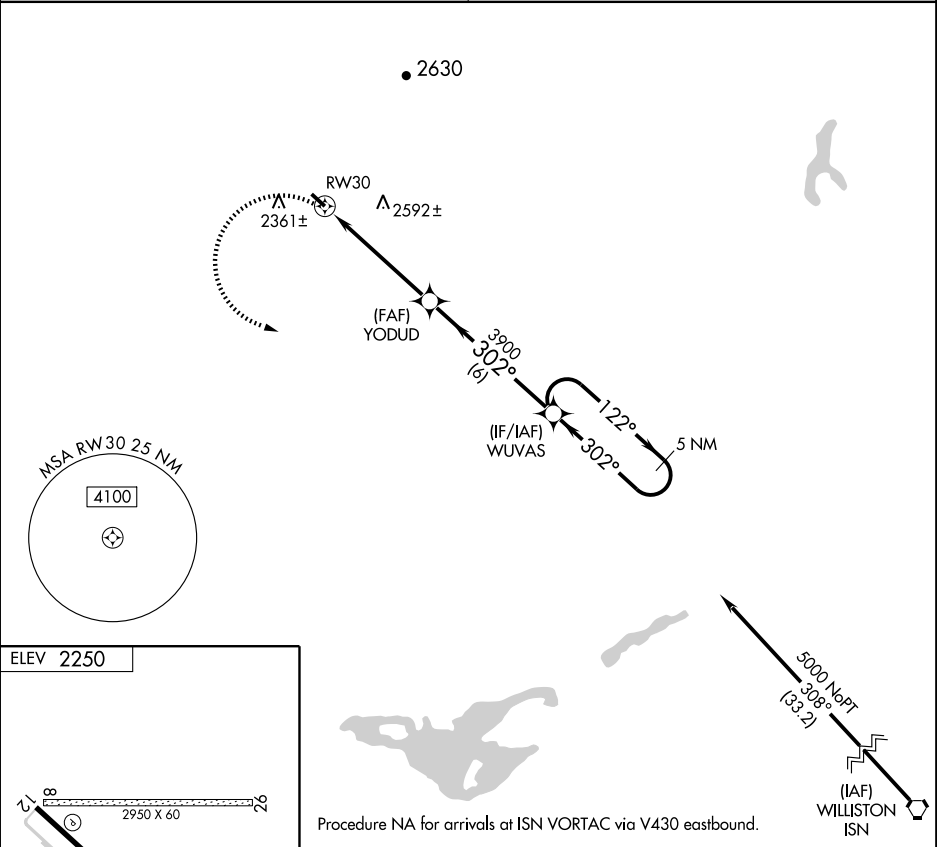
PLENTYWOOD/ SHER-WOOD (PWD)

APP CRS	Rwy Idg	N/A
302°	TDZE	N/A
	Apt Elev	2250


Procedure NA at night. DME/DME RNP- 0.3 NA.
Use Sloulin Fld Intl, ND altimeter setting, if not received, use Wolf Point/
L.M. Clayton altimeter setting and increase all MDAs 40 feet.

MISSED APPROACH: Climbing left turn
to 5000 direct WUVAS and hold.

SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF)
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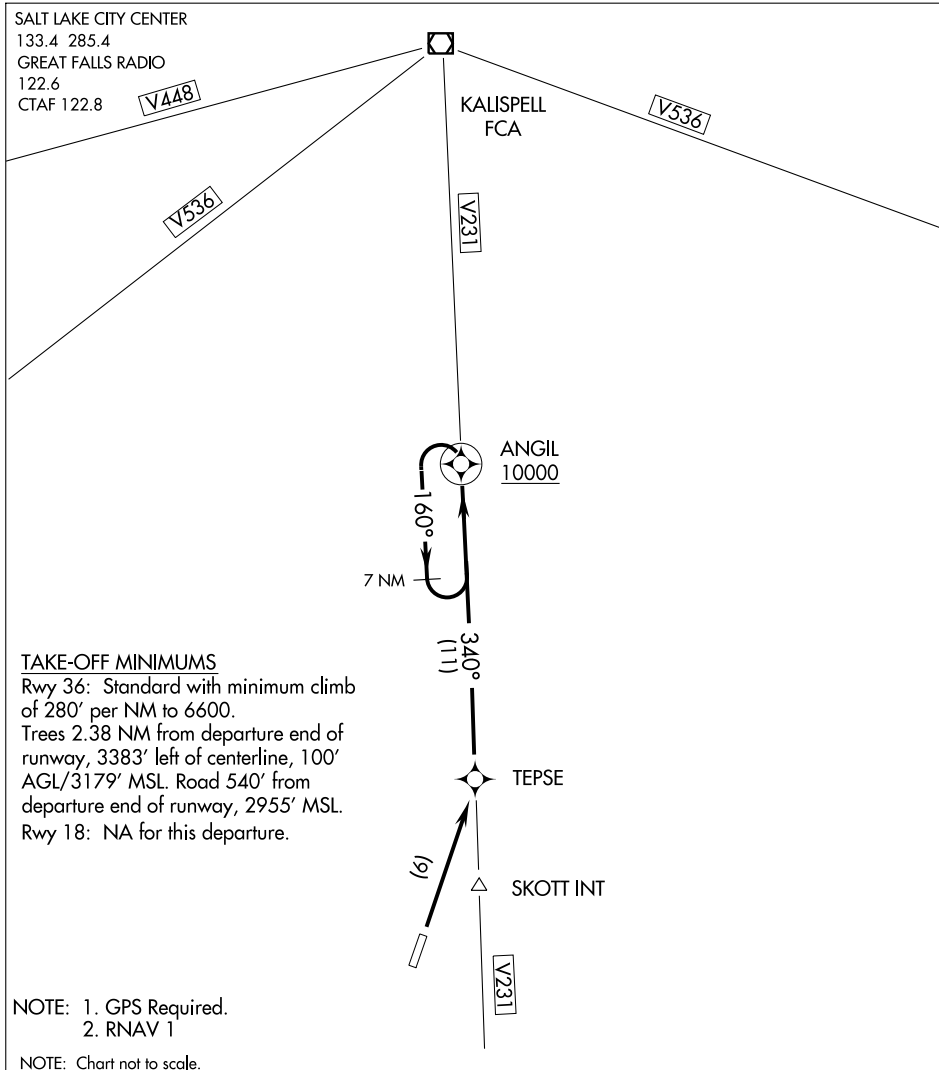


Procedure NA for arrivals at ISN VORTAC via V430 eastbound.

<div><div><div>5000</div><div>WUVAS</div></div><div><div><div>WUVAS</div><div>5 NM Holding Pattern</div></div></div></div> <div><div><div>RW30</div><div>YODUD</div></div><div><div><div>3900</div><div>302°</div><div>122°</div><div>5000</div></div><div><div>← 302°</div><div>→</div></div></div><div><div>5 NM</div><div>6 NM</div></div></div> <table><tr><td>CATEGORY</td><td>A</td><td>B</td><td>C</td><td>D</td></tr><tr><td>CIRCLING</td><td>2840-1</td><td>590 (600-1)</td><td colspan="2">NA</td></tr></table>					CATEGORY	A	B	C	D	CIRCLING	2840-1	590 (600-1)	NA	
CATEGORY	A	B	C	D										
CIRCLING	2840-1	590 (600-1)	NA											
CATEGORY	A	B	C	D										
CIRCLING	2840-1	590 (600-1)	NA											

(ANGIL1.ANGIL) 07074 SL-9529 (FAA)
ANGIL ONE DEPARTURE (RNAV) (OBSTACLE)

POLSON (8S1)
POLSON, MONTANA



NW-1, 22 OCT 2009 to 19 NOV 2009



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 36: Climb direct to TEPSE WP, then via 340° track to ANGIL WP,
Thence....

....Climb in the ANGIL WP holding pattern to cross ANGIL WP at or above 10,000 prior
to proceeding on course.

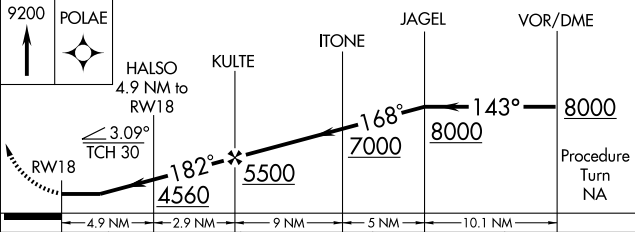
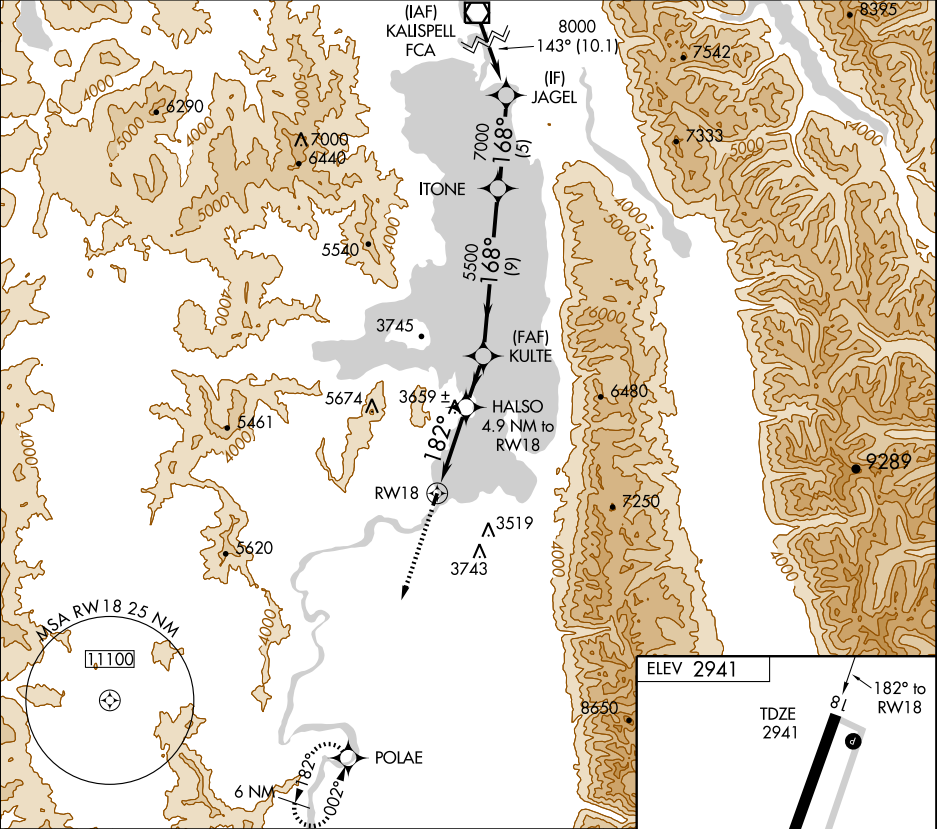
APP CRS	Rwy Idg	4195
182°	TDZE	2941
	Apt Elev	2941

RNAV (GPS) RWY 18

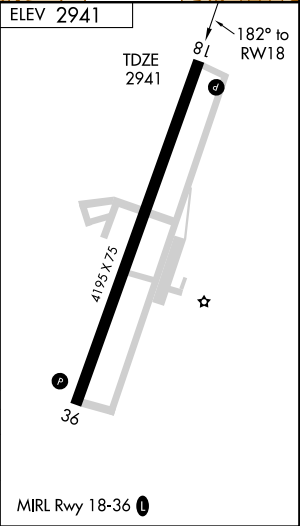
POLSON (8S1)

<div><div>▼</div><div>NA</div></div> <div>Procedure NA at night. DME/DME RNP- 0.3 NA. Use Glacier Park Intl altimeter setting.</div>	MISSED APPROACH: Climb to 9200 direct POLAE and hold.
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GLACIER PARK INTL ASOS 132.625	SALT LAKE CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LNAV MDA	4480-1¼ 1539 (1600-1¼)	4480-1½ 1539 (1600-1½)	NA	
CIRCLING	4480-1¼ 1539 (1600-1¼)	4480-1½ 1539 (1600-1½)	NA	



APP CRS
013°

Rwy Idg
TDZE
Apt Elev

4195
2941
2941

RNAV (GPS) RWY 36

POLSON (8S1)

▼

NA

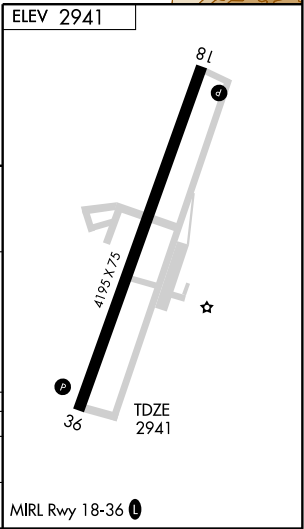
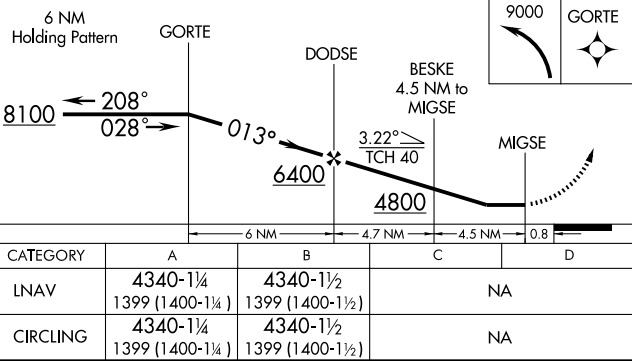
Procedure NA at night.
DME/DME RNP-0.3 NA.
Use Glacier Park Intl altimeter setting.

MISSED APPROACH: Climbing left turn to 9000 direct
GORTE WP and hold.

GLACIER PARK INTL ASOS
132.625

SALT LAKE CENTER
133.4 285.4

UNICOM
122.8 (CTAF) 0

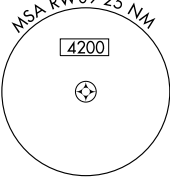
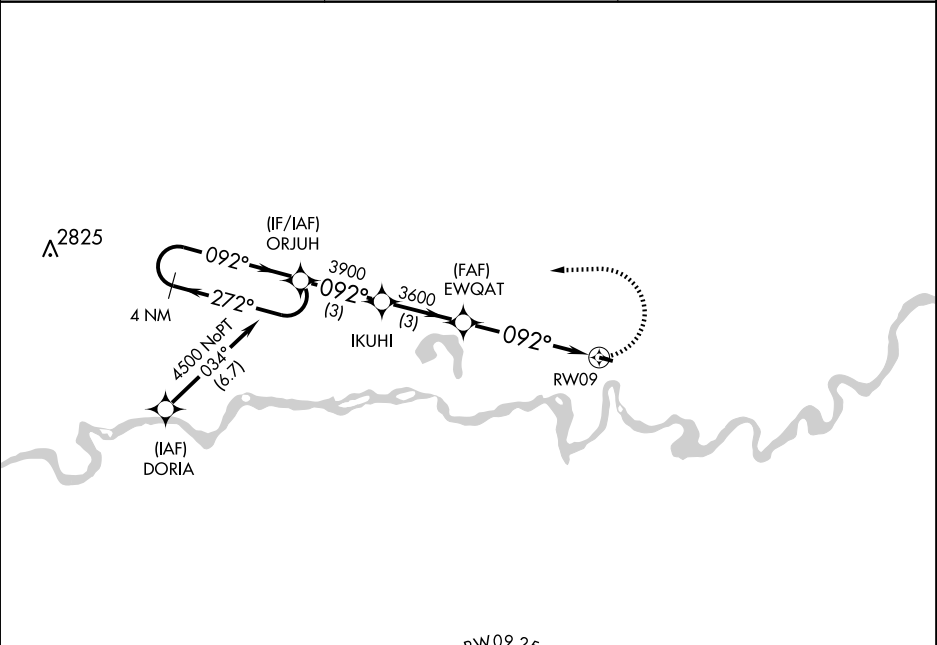


APP CRS 092°	Rwy Idg TDZE Apt Elev	3030 2005 2005
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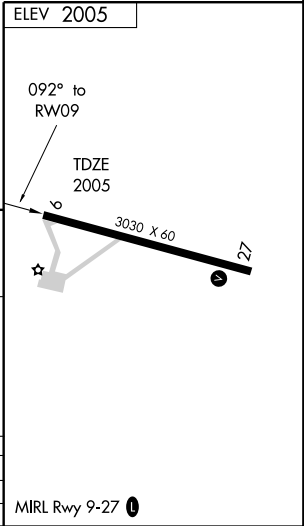
RNAV (GPS) RWY 9
POPLAR (42S)

▲ NA Use Wolf Point altimeter setting. GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climbing left turn to 4500 direct ORJUH WP and hold.
---	--

WOLF POINT ASOS 118.325	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 0
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4 NM Holding Pattern				
CATEGORY	A	B	C	D
LNAY MDA	2480-1	475 (500-1)	NA	NA
CIRCLING	2500-1	495 (500-1)	NA	NA



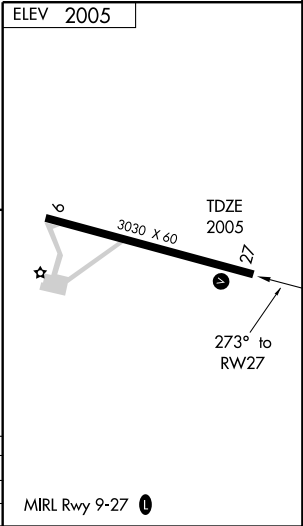
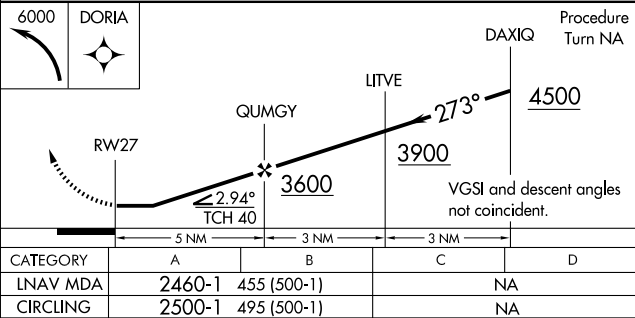
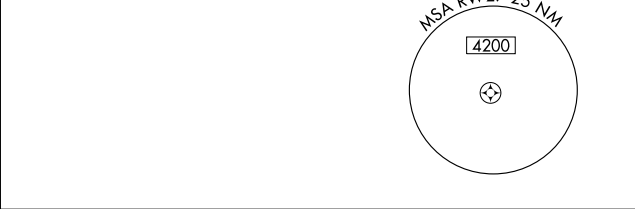
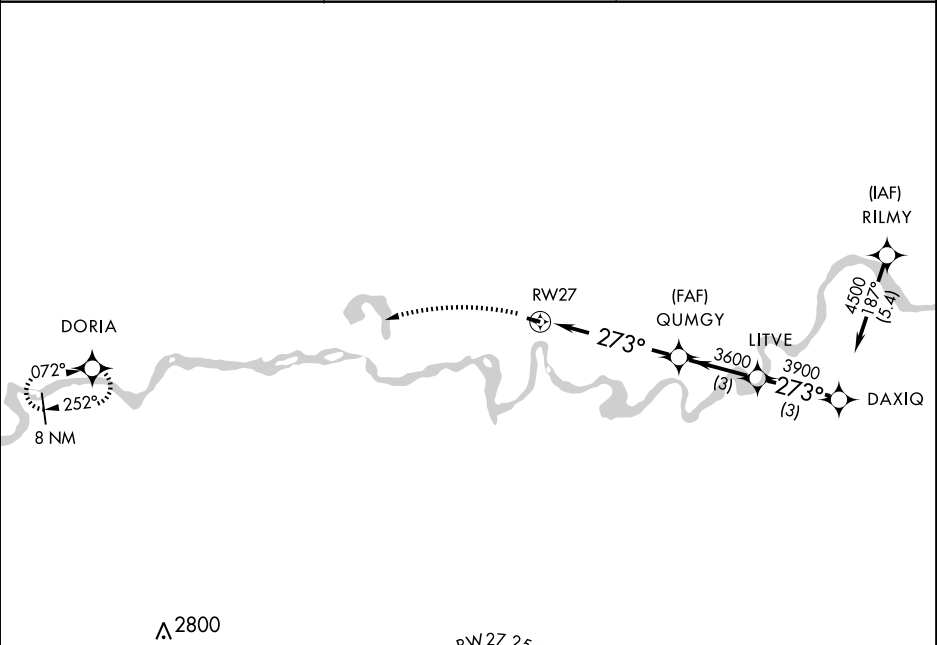
APP CRS 273°	Rwy Idg TDZE Apt Elev	3030 2005 2005
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RNAV (GPS) RWY 27
POPLAR (42S)

▲ NA Use Wolf Point altimeter setting.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 not authorized.

MISSED APPROACH: Climbing left turn to 6000 direct
DORIA WP and hold.

WOLF POINT ASOS 118.325	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 0
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SALT LAKE CITY CENTER
133.4 285.4
GREAT FALLS RADIO
122.6
CTAF 122.8



NOTE: RNAV 1.

NOTE: GPS required.

TAKE-OFF MINIMUMS:

Rwy 16: Standard.

Rwy 34: NA. See RONAN DEPARTURE.

TAKE-OFF OBSTACLE NOTE:

Rwy 16: Tree 485' from DER, 386' left of centerline, 50' AGL/3149' MSL.

NOTE: Chart not to scale

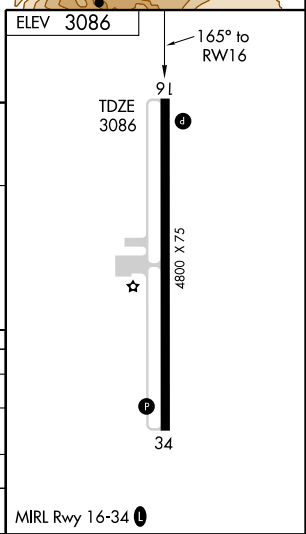


DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb to 13000 direct KANAF and via track 180° to CHARL and via track 255° to HANIM and hold, continue climb-in-hold to 13000 before proceeding on course.

RNAV (GPS) RWY 16
RONAN (7S0)

MISSED APPROACH: Climb to 13000 direct IBBOR and via track 255° to HANIM and hold, continue climb-in-hold to 13000.

UNICOM
122.8 (CTAF) **L**

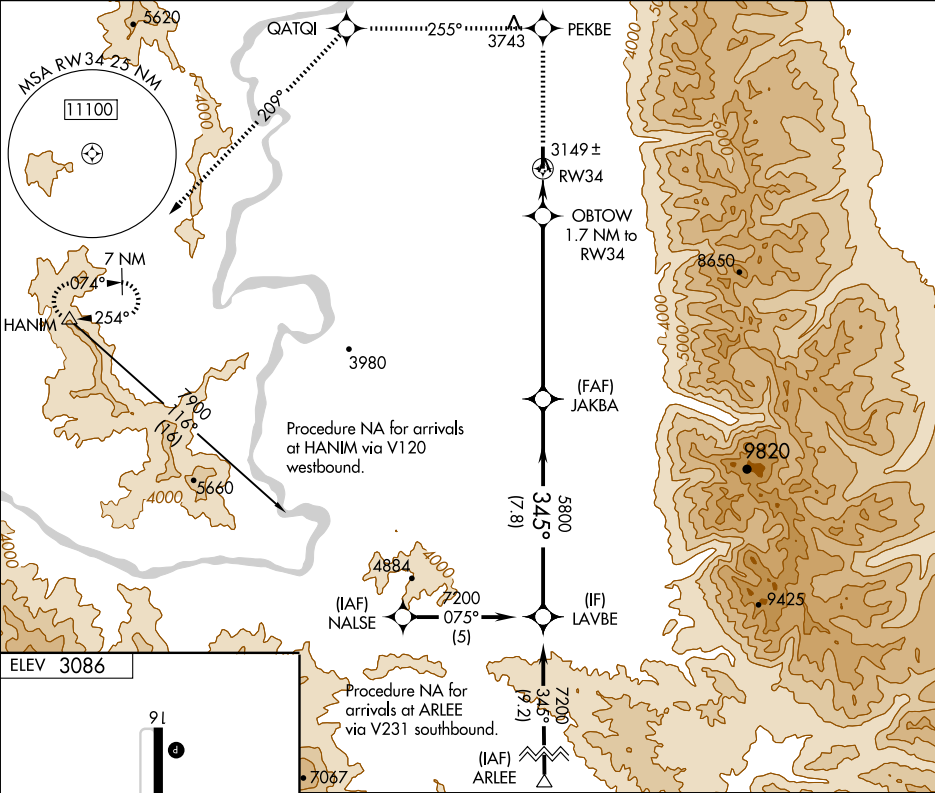
		6.9 NM	3.6 NM	2.9 NM	1.1 NM	
CATEGORY		A	B	C	D	
LPV	DA	3386-1	300 (300-1)	NA		
LNAV/ VNAV	DA	3531-1½	445 (500-1½)	NA		
LNAV	MDA	3460-1	374 (400-1)	NA		
CIRCLING		3460-1 374 (400-1)	3540-1 454 (500-1)	NA		

WAAS CH 86614 W34A	APP CRS 345°	Rwy Idg TDZE Apt Elev	4800 3081 3086
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RNAV (GPS) RWY 34
RONAN (7S0)

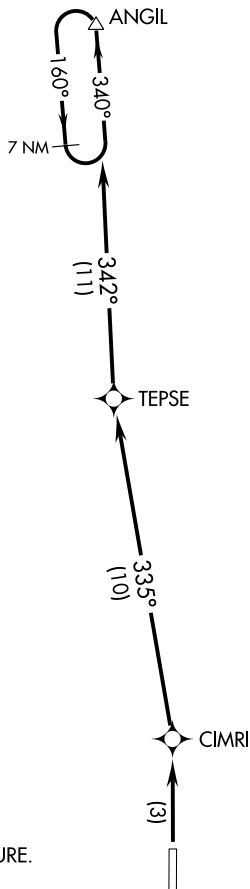
Circling NA east of Rws 16 and 34. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 13000 direct PEKBE and via track 255° to QATQI and via track 209° to HANIM and hold, continue climb-in-hold to 13000.
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AWOS-3 122.8	SALT LAKE CITY CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0
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ELEV 3086		91		4800 X 75		TDZE 3081		34		345° to RW34	
MIRL Rwy 16-34		13000		PEKBE		QATQI		HANIM		VGS1 and RNAV glidepath not coincident.	
*LNAV only		trk 255°		trk 209°		JAKBA		LAVBE		Procedure Turn NA	
OBTOW 1.7 NM to RW34		5800		7200		345°		5800		GS 3.00°	
1 NM to RW34		3660		6.5 NM		7.8 NM		TCH 40			
CATEGORY		A		B		C		D			
LPV DA		3392-1		311 (400-1)		NA					
LNAV MDA		3400-1		319 (400-1)		NA					
CIRCLING		3460-1		3540-1		NA					
		374 (400-1)		454 (500-1)							

SALT LAKE CITY CENTER
133.4 285.4
GREAT FALLS RADIO
122.6
CTAF 122.8



NOTE: RNAV 1.

NOTE: GPS required.

TAKE-OFF MINIMUMS:

Rwy 16: NA. See HANIM ONE DEPARTURE.

Rwy 34: Standard.

TAKE-OFF OBSTACLE NOTES:

Rwy 34: Building 158' from DER, 370' left of centerline, 40' AGL/3130' MSL.

Tree 1358' from DER, 556' left of centerline, 50' AGL/3149' MSL.

NOTE: Chart not to scale





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34: Climb to 10000 direct CIMRI and via track 335° to TEPSE and via track 342° to ANGIL and hold, continue climb-in-hold to appropriate MEA before proceeding on course.

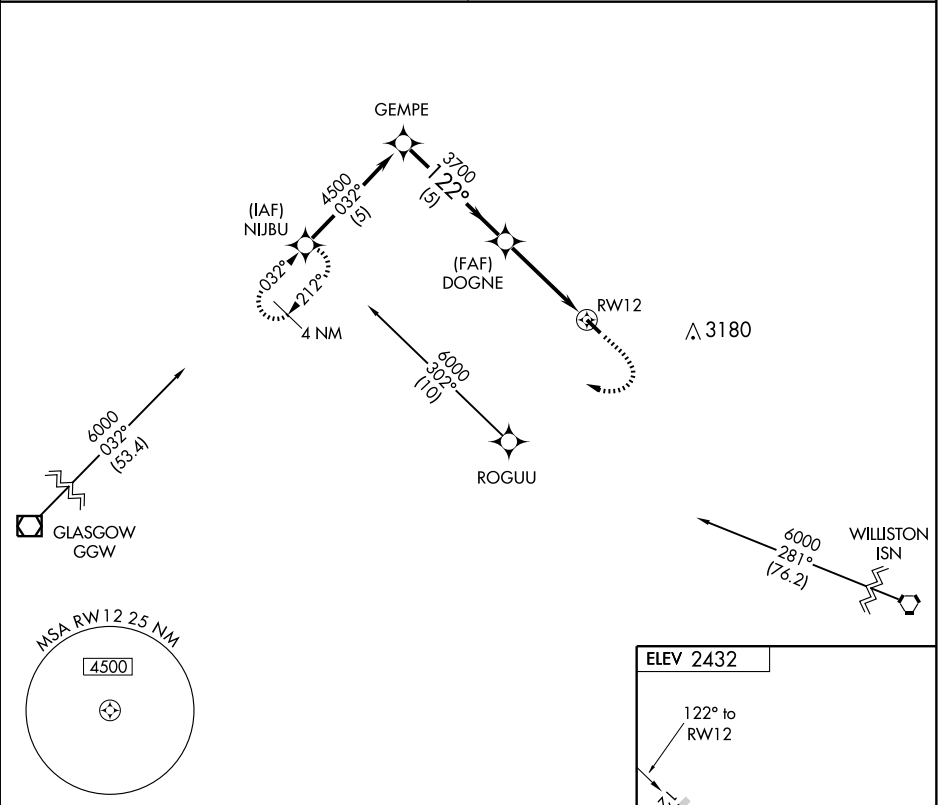
APP CRS	Rwy Idg	4015
122°	TDZE	2385
	Apt Elev	2432

RNAV (GPS) RWY 12

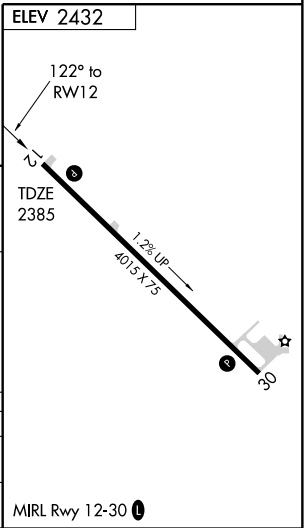
SCOBEY (9S2)

 GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 3600 then climbing right turn to 6000 direct NIJBU WP and hold.
 Use Wolf Point altimeter setting; when not received procedure not authorized.	

SALT LAKE CITY CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 
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<p>GEMPE</p> <p>4500</p> <p>Procedure Turn NA</p>					<p>VGSI and descent angles not coincident.</p> <p>DOGNE</p> <p>3700</p> <p>5 NM</p> <p>3.00° TCH 40</p> <p>4 NM</p> <p>RW12</p>					<p>3600</p> <p>6000</p> <p>NIJBU</p>	
CATEGORY	A		B		C		D				
LNAV MDA	3100-1 715 (700-1)						NA				
CIRCLING	3100-1 668 (700-1)						NA				



Rwy Idg	5004
TDZE	3443
Apt Elev	3443



NDB RWY 23
SHELBY (SBX)

NA Use Cut Bank altimeter setting, if not received, use Great Falls altimeter setting and increase all MDAs 120 feet.

MISSED APPROACH: Climbing right turn to 5500 in SBX NDB holding pattern.

SALT LAKE CITY CENTER
133.4 285.4



UNICOM
122.8 (CTAF) **L**

CUT BANK
114.4 CTB  
Chan 91

6000
- 077°
(19.2)

ELEV 3443

BRADZ

5500	SBX
	
	<u>347</u>

NDB

Remain
within 10 NM

033° → 5500

MIRL Rwy 5-23 and 11-29 **L**

CATEGORY	A	B	C	D
S-23	4240-1 797 (800-1)	4240-1¼ 797 (800-1¼)	4240-2¼ 797 (800-2¼)	NA
CIRCLING	4240-1 797 (800-1)	4240-1¼ 797 (800-1¼)	4240-2¼ 797 (800-2¼)	NA

NW-1. 22 OCT 2009 to 19 NOV 2009

APP CRS	Rwy Idg	5004
230°	TDZE	3443
	Apt Elev	3443

RNAV (GPS) RWY 23

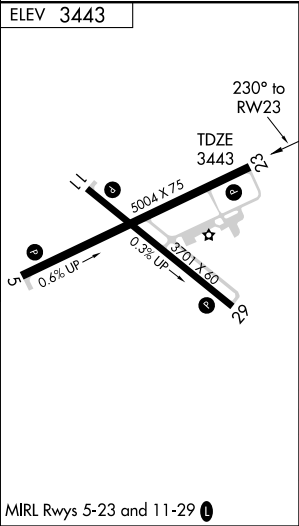
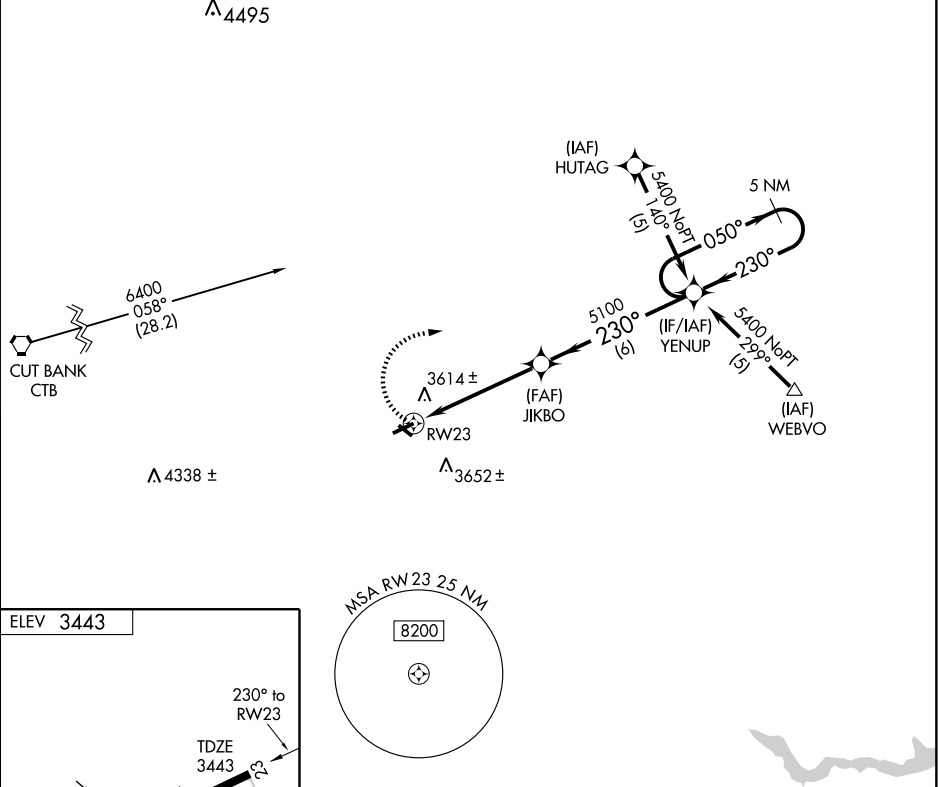
SHELBY (SBX)

▼ DME/DME RNP- 0.3 NA.
Circling NA at night.
▲ NA Visibility reduction by helicopters NA.
Use Cut Bank altimeter setting, if not received, use Great Falls altimeter setting and increase all MDAs 120 feet.

MISSED APPROACH: Climbing right turn to 5400 direct YENUP and hold.

SALT LAKE CITY CENTER
133.4 285.4

UNICOM
122.8 (CTAF) 1



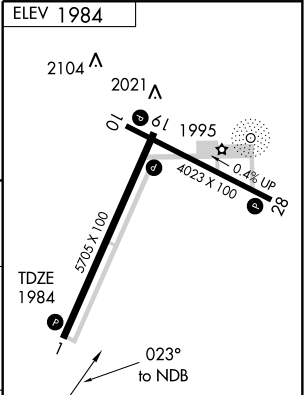
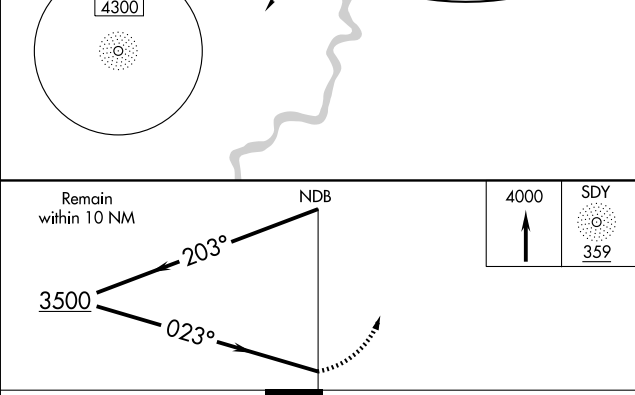
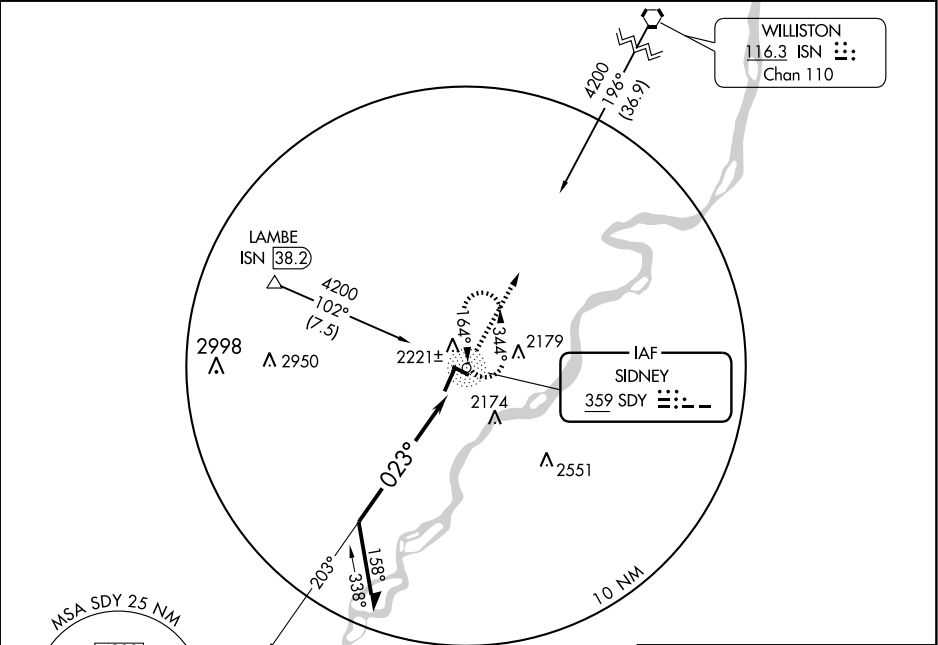
<div>5400</div> <div>YENUP</div>				
<div>JIKBO</div> <div>RW23</div> <div>5100</div> <div>5 NM</div> <div>6 NM</div>				
<div>YENUP</div> <div>5 NM Holding Pattern</div> <div>050°</div> <div>230°</div> <div>5400</div>				
CATEGORY	A		B	
LNAV MDA	4060-1		617 (700-1)	
CIRCLING	4120-1		677 (700-1)	

NDB SDY	APP CRS	Rwy Idg	5705
359	023°	TDZE	1984
		Apt Elev	1984

NDB RWY 1
SIDNEY-RICHLAND MUNI (SDY)

MISSED APPROACH: Climb to 4000 then direct SDY NDB and hold.

AWOS-3 119.275	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-1	2720-1 736 (800-1)	2720-2 736 (800-2)	2720-2 736 (800-2)	2720-2 736 (800-2)
CIRCLING	2720-1 736 (800-1)	2720-2 736 (800-2)	2720-2 736 (800-2)	2720-2 736 (800-2)

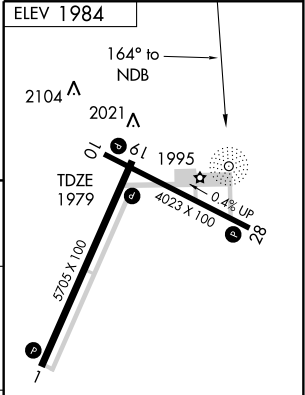
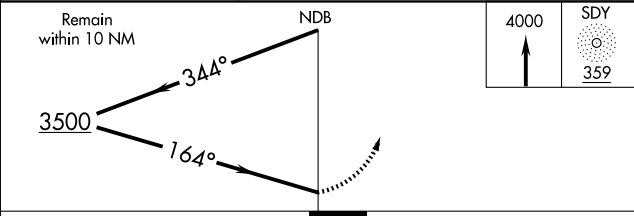
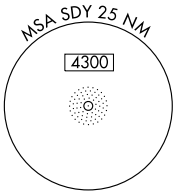
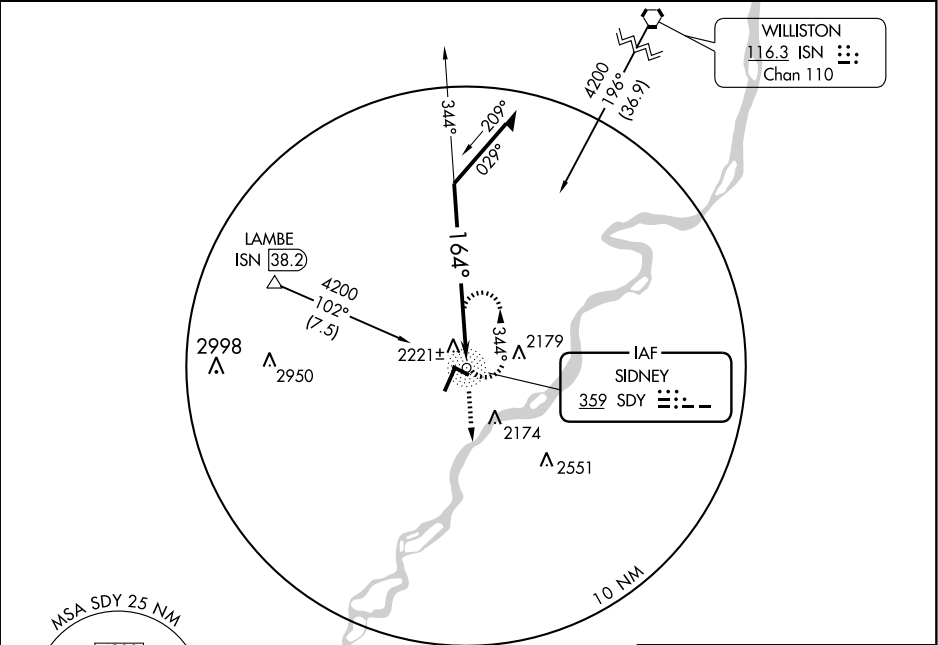
Knots	60	90	120	150	180
Min:Sec					

NDB SDY	APP CRS	Rwy Idg	5705
359	164°	TDZE	1979
		Apt Elev	1984

NDB RWY 19
SIDNEY-RICHLAND MUNI (SDY)

MISSED APPROACH: Climb to 4000 then direct SDY NDB and hold.

AWOS-3 119.275	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF)
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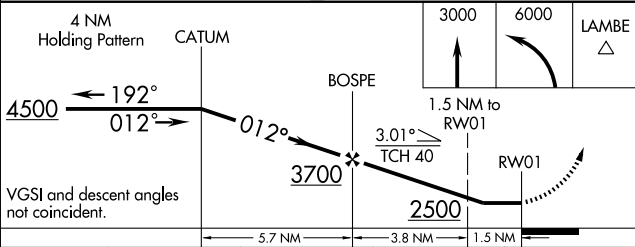
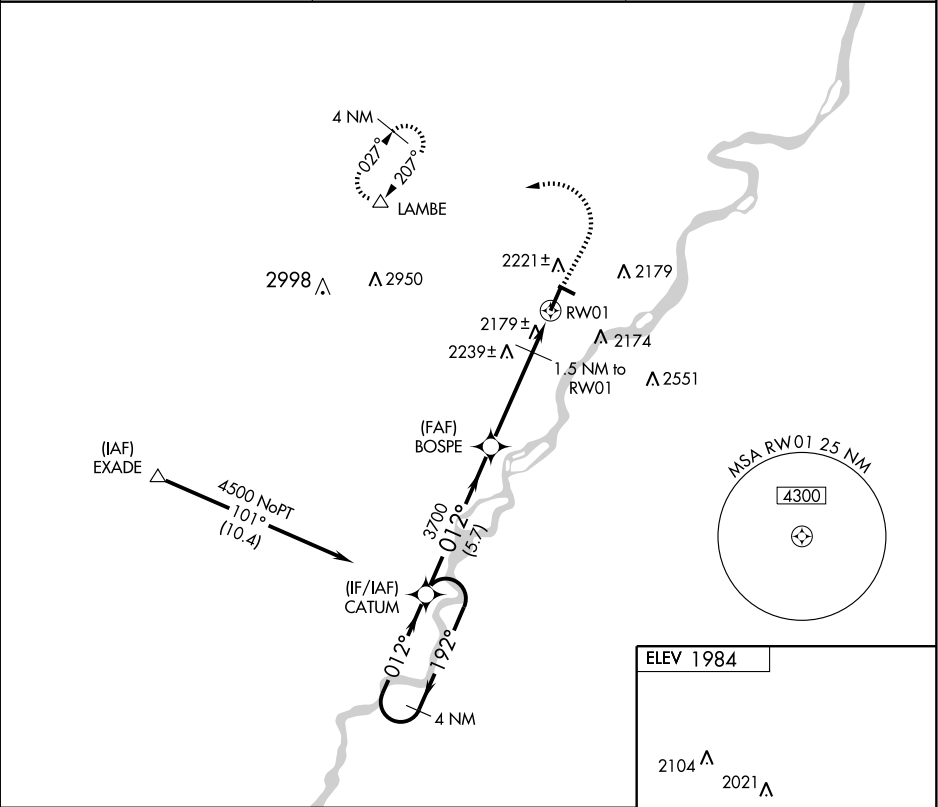
CATEGORY	A	B	C	D
S-19	2780-1 801 (800-1)	2780-1¼ 801 (800-1¼)	2780-2¼ 801 (800-2¼)	2780-2½ 801 (800-2½)
CIRCLING	2780-1 796 (800-1)	2780-1¼ 796 (800-1¼)	2780-2¼ 796 (800-2¼)	2780-2½ 796 (800-2½)
Knots				
Min:Sec				

APP CRS	Rwy Idg	5705
012°	TDZE	1984
	Apt Elev	1984

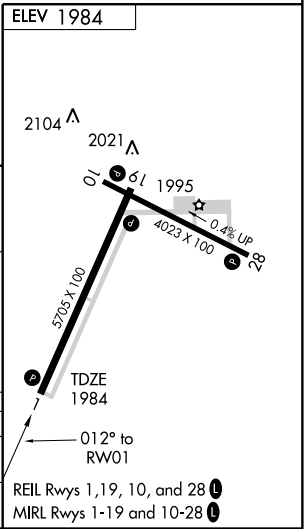
RNAV (GPS) RWY 1
SIDNEY-RICHLAND MUNI (SDY)

NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 3000 then climbing left turn to 6000 direct LAMBE WP and hold.
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AWOS-3 119.275	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
LNAV MDA	2440-1	456 (500-1)	2440-1½ 456 (500-1½)	2440-1½ 456 (500-1½)
CIRCLING	2620-1 636 (700-1)	2640-1 656 (700-1)	2680-2 696 (700-2)	2700-2¼ 716 (800-2¼)

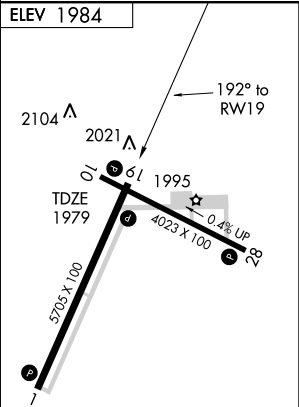
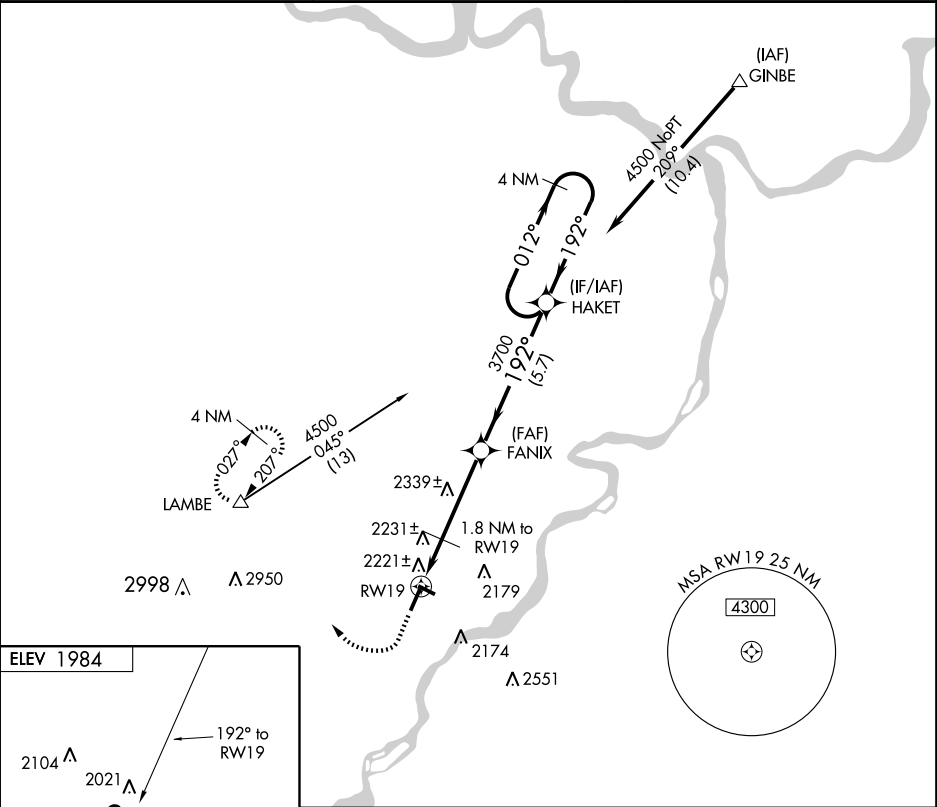


APP CRS 192°	Rwy Idg TDZE Apt Elev	5705 1979 1984
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RNAV (GPS) RWY 19
SIDNEY-RICHLAND MUNI (SDY)

NA	GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 3000 then climbing right turn to 6000 direct LAMBE WP and hold.
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AWOS-3 119.275	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF)
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REIL Rwy 1, 19, 10, and 28
MIRL Rwy 1-19 and 10-28

	3000	6000	LAMBE △	
				HAKET 4 NM Holding Pattern
				012° → 4500
				← 192°
				3700
				1.8 NM to RWY 19
				2600
				1.8 NM 3.5 NM 5.7 NM
CATEGORY	A	B	C	D
RNAV MDA	2500-1	521 (600-1)	2500-1½ 521 (600-1½)	2500-1¾ 521 (600-1¾)
CIRCLING	2620-1 636 (700-1)	2640-1 656 (700-1)	2680-2 696 (700-2)	2700-2¼ 716 (800-2¼)

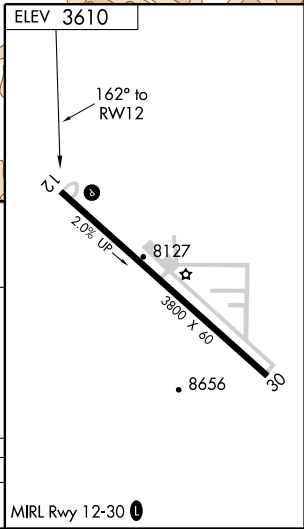
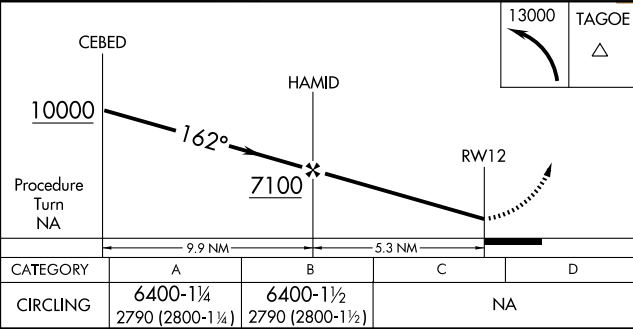
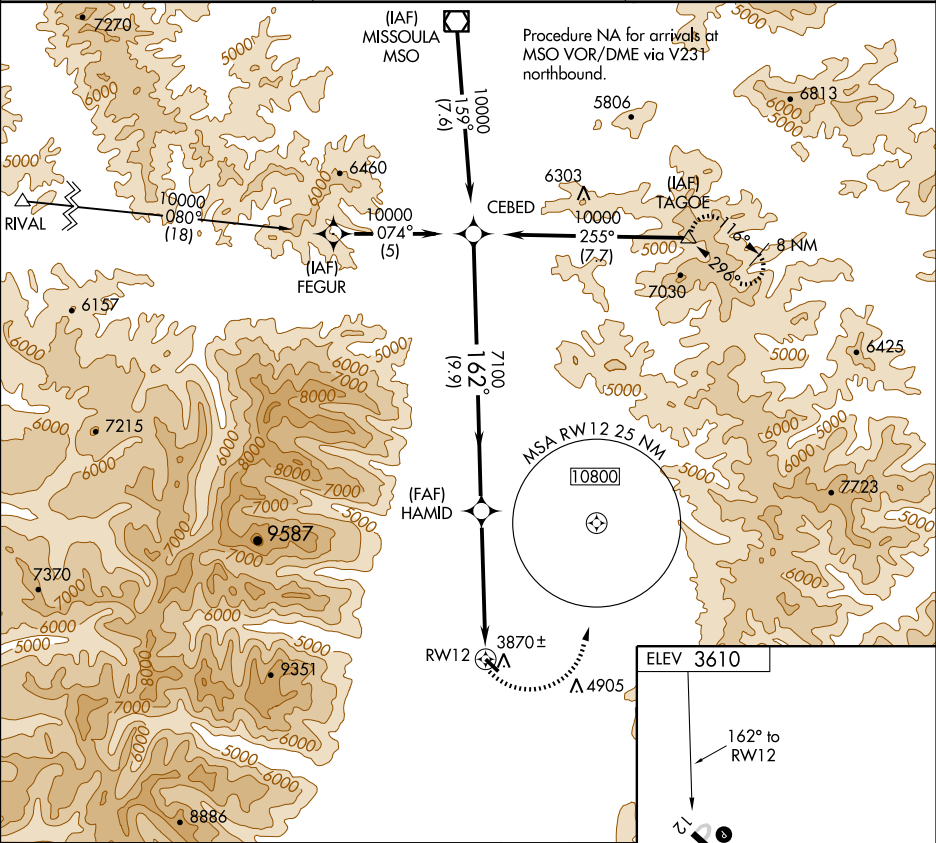
RNAV (GPS)-A
STEVENSVILLE (32S)

APP CRS 162°	Rwy Idg TDZE Apt Elev	N/A N/A 3610
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▼ DME/DME RNP-0.3 NA.
▲ NA Use Missoula Intl altimeter setting.
Circling NA at night to Rwy 30.

MISSED APPROACH: Climbing left turn to 13000 direct
TAGOE WP and hold.

MISSOULA ASOS 126.65	SPOKANE APP CON★ 124.9 298.95	UNICOM 122.8 (CTAF) 0
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LOC I-LOW <u>110.7</u>	APP CRS 010°	Rwy Idg 8400 TDZE 6644 Apt Elev 6644
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ILS or LOC RWY 1

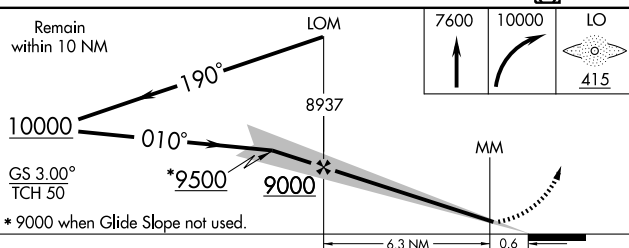
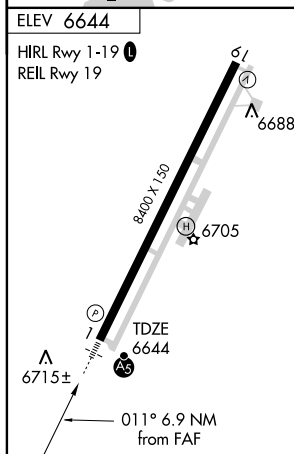
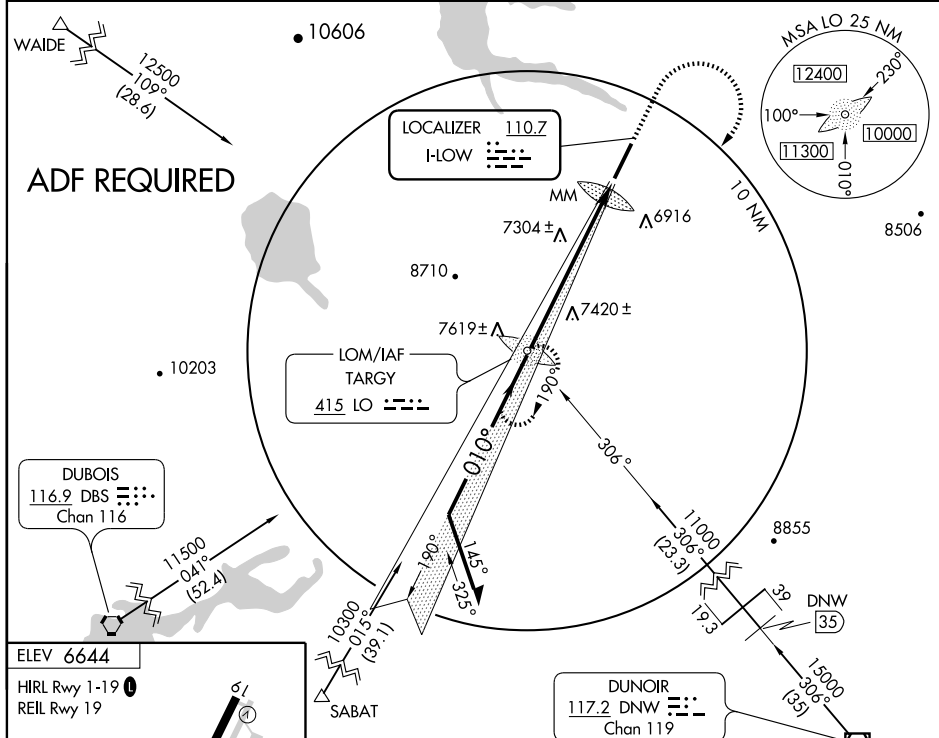
WEST YELLOWSTONE/YELLOWSTONE (WYS)

T If local altimeter setting not received, procedure
A NA not authorized.



MISSED APPROACH: Climb to 7600, then climbing right turn to 10000 direct LO LOM and hold.

SALT LAKE CENTER
132.4 338.3

UNICOM
123.0 (CTAF) 

<div>6715± A6 011° 6.9 NM from FAF</div>		CATEGORY					A		B		C		D	
		S-ILS 1		6844-½ 200 (200-½)										
FAF to MAP 6.9 NM		S-LOC 1		7720-¾ 1076 (1100-¾)		7720-1 1076 (1100-1)		7720-2½		1076 (1100-2½)				
		CIRCLING		7720-1¼ 1076 (1100-1¼)		7720-1½ 1076 (1100-1½)		7720-3		1076 (1100-3)				
Knots		60		90		120		150		180				
Min:Sec		6:54		4:36		3:27		2:46		2:18				

LOM LO	APP CRS	Rwy Idg	8400
<u>415</u>	011°	TDZE	6644
		Apt Elev	6644

NDB or GPS RWY 1

WEST YELLOWSTONE/YELLOWSTONE (WYS)

T	If local altimeter setting not received, procedure not authorized.
A NA	Categories A and B, S-1 visibility increased ½ mile for inoperative MALS R.

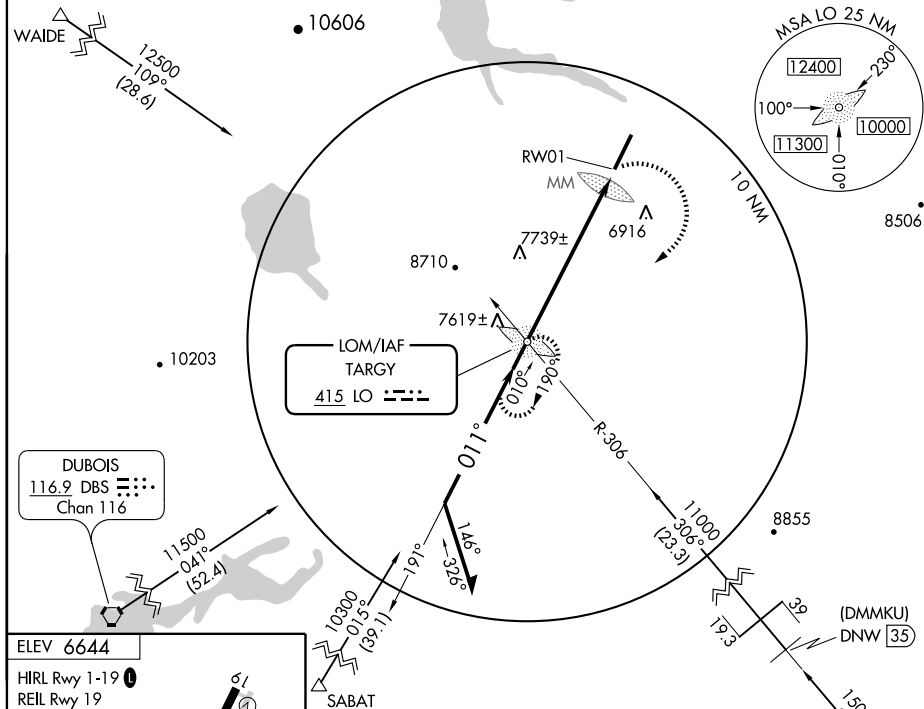
MALSR



MISSED APPROACH: Climbing right turn to 10000 direct LO LOM and hold.

SALT LAKE CENTER
132.4 338.3

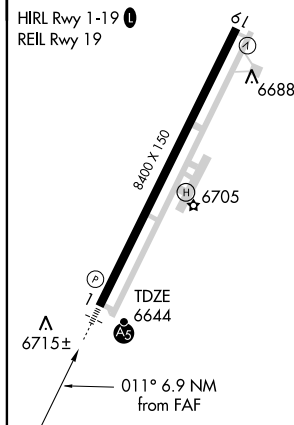
UNICOM

123.0 (CTAF) **L**

NW-1. 22 OCT 2009 to 19 NOV 2009

ELEV 6644

HIRL Rwy 1-19 **L**
REIL Rwy 19



Remain
within 10 NM

LOM

10000

LO

10000

 3.15°

TCH 50

RW01

4

i

.....

- 69 NM -

114

FAF to MAP 6.9 NM

Knots	60	90	120	150	180
Min:Sec	6:54	4:36	3:27	2:46	2:18

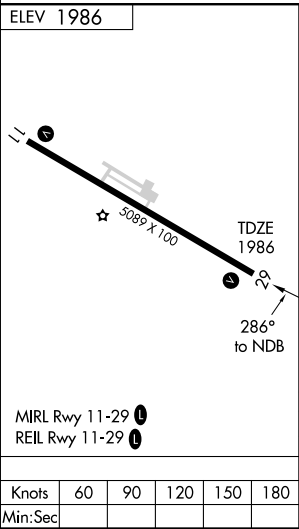
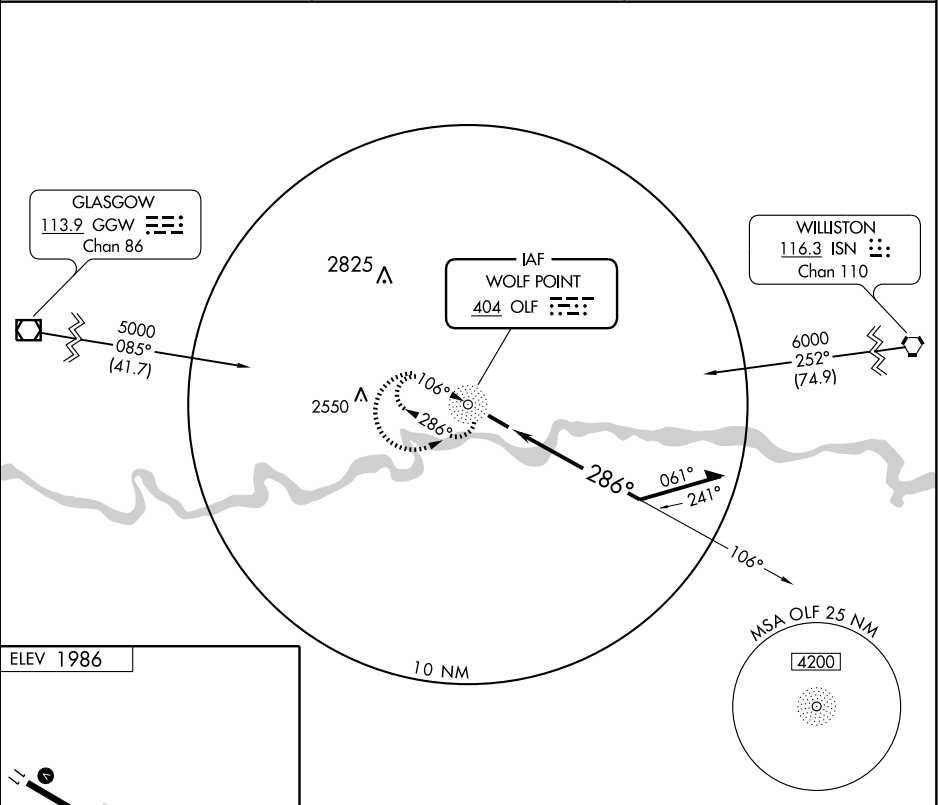
CATEGORY	A	B	C	D
S-1	8000- $\frac{3}{4}$ 1356 (1400- $\frac{3}{4}$)	8000-1 1356 (1400-1)	8000-2 $\frac{1}{2}$ 1356 (1400-2 $\frac{1}{2}$)	8000-2 $\frac{3}{4}$ 1356 (1400-2 $\frac{3}{4}$)
CIRCLING	8000-1 $\frac{1}{4}$ 1356 (1400-1 $\frac{1}{4}$)	8000-1 $\frac{1}{2}$ 1356 (1400-1 $\frac{1}{2}$)	8000-3 1356 (1400-3)	

▲ NA

If local altimeter setting not received, used Wokal Field/Glasgow Intl altimeter setting and increase all MDAs 160 feet.

MISSED APPROACH: Climbing left turn to 4000 direct OLF NDB continue climb-in-hold to 4000.

ASOS 118.325	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 0
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4000	OLF 404	NDB	106°	286°	4300	Remain within 10 NM
CATEGORY	A	B	C	D		
S-29	2820-1 834 (900-1)	2820-1¼ 834 (900-1¼)	2820-2½ 834 (900-2½)	2820-2¾ 834 (900-2¾)		
CIRCLING	2820-1 834 (900-1)	2820-1¼ 834 (900-1¼)	2820-2½ 834 (900-2½)	2820-2¾ 834 (900-2¾)		

APP CRS	Rwy Idg	5089
109°	TDZE	1986
	Apt Elev	1986

RNAV (GPS) RWY 11

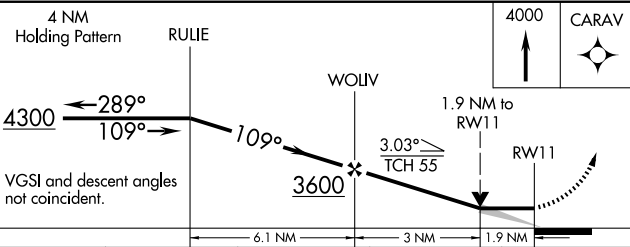
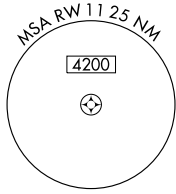
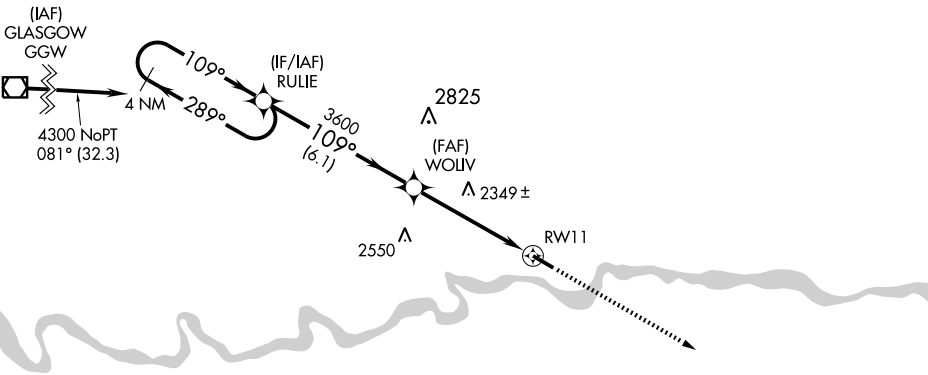
WOLF POINT/ L. M. CLAYTON (OLF)

⚠ DME/DME RNP-0.3 NA.
If local altimeter setting not received, use Wokal Field/Glasgow Intl altimeter setting and increase all MDAs 140 feet.
VDP NA when using Wokal Field/Glasgow Intl altimeter setting.
Straight-in minimums NA at night.

MISSED APPROACH: Climb to 4000 direct CARAV and hold.

ASOS 118.325	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 1
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Procedure NA for arrival at GGW VOR/DME via V430 westbound.



ELEV 1986

109° to RW11

TDZE 1986

5089 x 100

29

MIRL Rwy 11-29 **1**

REIL Rwy 11-29 **1**

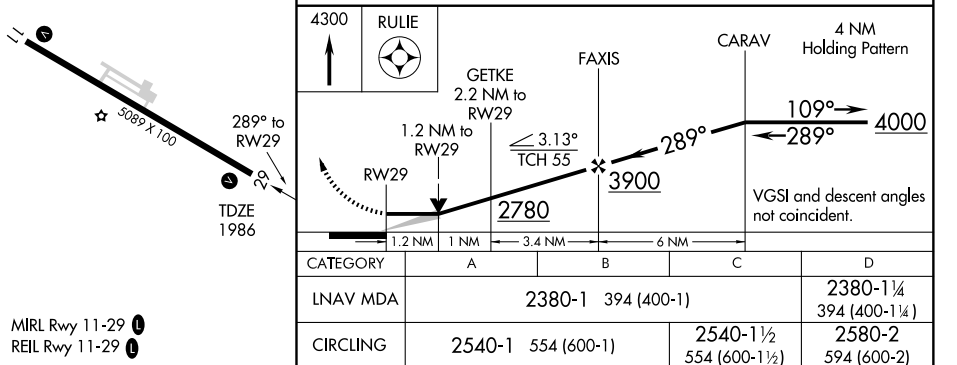
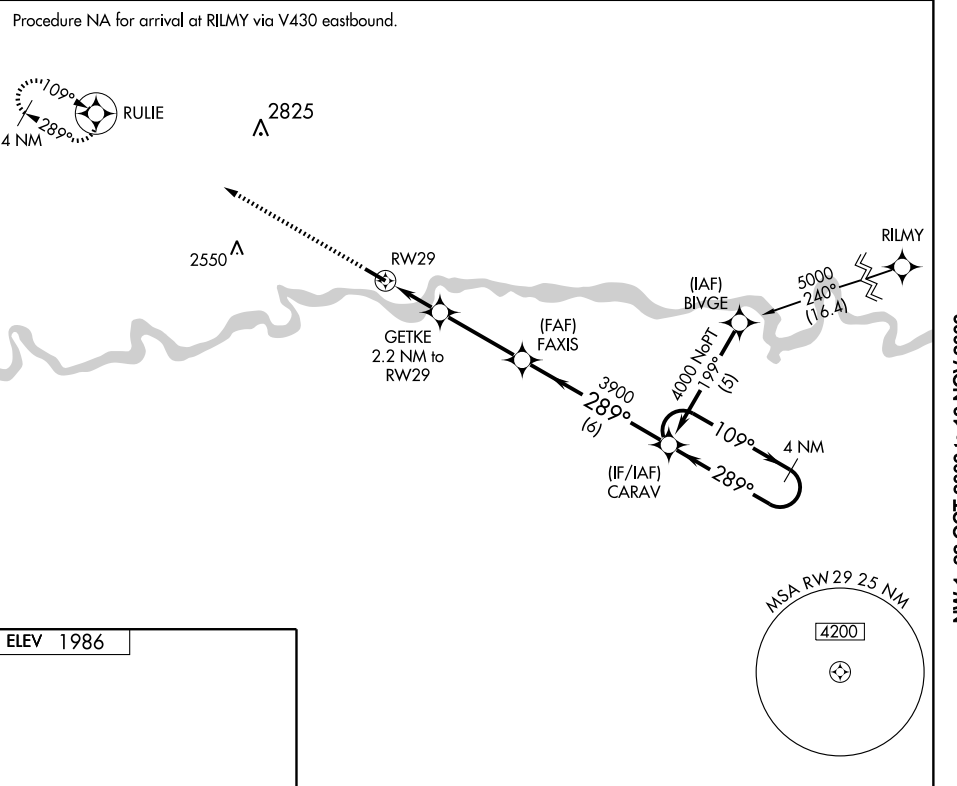
CATEGORY	A	B	C	D
RNAV MDA	2600-1 614 (700-1)		2600-1¾ 614 (700-1¾)	2600-2 614 (700-2)
CIRCLING	2600-1 614 (700-1)		2600-1¾ 614 (700-1¾)	2600-2 614 (700-2)

▲

DME/DME RNP- 0.3 NA.
If local altimeter setting not received, use Wokal Field/Glasgow Intl altimeter setting and increase all MDAs 160 feet.
VDP NA when using Wokal Field/Glasgow Intl altimeter setting.

MISSED APPROACH: Climb to 4300 direct RULIE and hold.

<div>ASOS</div> <div>118.325</div>	<div>SALT LAKE CENTER</div> <div>126.85 305.2</div>	<div>UNICOM</div> <div>122.8 (CTAF) </div>
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NW-1. 22 OCT 2009 to 19 NOV 2009